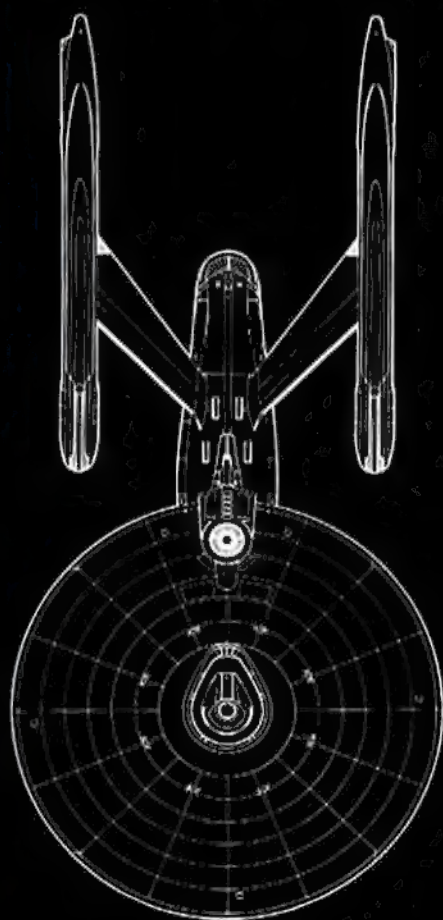




# The Best of Jackill's STAR FLEET REFERENCE MANUAL Ships of the Fleet



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**Eric Kristiansen**



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# INTRODUCTION

## Dedication

GENERAL INFORMATION

### Intro Info

### Contents

# INTRODUCTION

## Statistics

This is an overview of what some of the statistical information you will run across in this reference manual mean.



**Acceleration Power:** Is the value that a warp number is raised to to determine its speed as a multiple of light.

**Acceleration Rate:** Lists the various times it takes to accelerate the vessel through sublight speeds.

**Acceleration Times:** Lists the time it takes to accelerate from one warp value to the next. It should be noted that although an acceleration time may be given, the craft may not be designed to reach that speed without disintegration.

**Beds:** Lists the number of beds in the medical facility.

**Bottom Profile:** This profile is used for familiarization of the bottom view of the vessel.

**Breakdown Rate:** Is the amount of power in watts that will eventually break down the shields if applied constantly.

**Brigs:** Lists the number of detention cells.

**Cargo Specification:** Lists the number of standard cargo units and the cargo capacity of all the containers.

**Category:** Lists the general classification of the ship such as frigate, destroyer, freighter, etc.

**Class Emblem:** Each ship class is given a distinct logo design to represent the entire class.

**Classification:** Lists the exact designation of the craft, such as assault frigate or attack frigate.

**Class:** Is the name assigned to distinct vessel designs to distinguish one design from another. An example being one heavy cruiser from another heavy cruiser design.

**Cloaking Devices:** Lists if the vessel is equipped with a cloaking shield.

**Computers:** Lists the number and type of computers onboard.

**Cross Section:** This cut away view is used for general familiarization of the interior arrangement of the vessel.

**Cross Section Area:** Lists the optimum cross section area that the warp field has for each profile.

**Destructive Speed:** Is the speed at which the vessel will start to tear apart due to excessive stress.

**Dimensions:** Listed in meters for various parts of the ship from the primary hull to the propulsion systems.

**Doctors:** Lists the number of medical doctors that are normally onboard.

**Dry Dock Area Usage:** Gives the usable construction area inside the dry dock for its standard configuration.

**Dry Dock Profiles:** Gives top, port and front views of the dry dock with an Enterprise Class Heavy Cruiser used to give a reference of the facility's size.

**Duration:** Is given for both standard (years between upgrades) and maximum (maximum years until the craft must be rebuilt) missions.

**ECM Index:** Is given as general guide to the craft's ability to evade detection. The index norm is based on the Heavy Cruiser.

**Emergency Condition:** Is the additional number of people that the craft can carry in an emergency.

**Emergency Speed:** Lists the fastest that the craft can travel for very short periods of time. The longer the craft travels at this speed the more the engines and hull are damaged.

**Field Height:** Is the optimum warp field height listed in meters.

**Field Length:** Is the optimum warp field length listed in meters.

**Field Width:** Is the optimum warp field width listed in meters.

**Front Profile:** This profile is used for familiarization of the front view of the vessel.

**General Information:** Is used to deliver additional information about the vessel.

**Holdoff Power:** Is given in watts and determines the power level that will breach the shields.

**Hz (Hertz):** Cycle per second.

**Impulse Engine Output:** Lists the engine output in watts.

**Impulse Power Index:** Is given as general guide to the vessel's overall impulse power. The index norm is based on the Heavy Cruiser.

**Impulse Unit:** Lists the impulse engine model number.

**Laboratories:** Lists the number of individual laboratories.

**Max. Cruising:** Lists the maximum speed that the impulse drive can propel the vessel.

**Maximum Speed:** Lists the fastest that the vessel can travel for sixty seconds before complete engine destruction.

**Max. Safe Cruising:** Lists the warp that the vessel can travel without substantial decrease in handling and safety. This speed is the fastest that the craft can travel without damaging the engines.

**Medical Facilities:** List the statistics of the medical facility.

**Model:** Is a Roman numeral that is distinct to each vessel category for each type/class.

**Naval Construction Contract:** Lists the number series assigned to that particular vessel series for construction and vessel registration.

**Number Constructed:** Lists how many vessels have been built.

**Number in Service:** Lists how many vessels are on active duty.

**Number Lost:** Lists how many vessels have been destroyed or decommissioned for various reasons.

**Number Proposed:** Lists the number of vessels that are to be built.

**Nurses:** Lists the number of nurses that are normally aboard.

**Operating Rooms:** Lists the number of fully equipped operating rooms.

**Optimum Speed:** Lists the warp that the vessel travel with the best fuel-distance ratio with minimal wear to the engines.

**Output:** Listed in watts for each shot for both burst and continuous fire, if available.

**Passengers:** Lists the number of passengers that the craft may carry.

**Port Profile:** This profile is used for familiarization of the port view of the vessel.

**Phaser Power Index:** Is given as general guide to the vessel's phaser power. The index norm is based on the Heavy Cruiser.

**Photon Power Index:** Is given as general guide to the vessel's

photon torpedo power. The index norm is based on the Heavy Cruiser.

**Primary Reactor Output:** List the output of the primary power source in watts.

**Range:** Is the weapons' effective range.

**Rate of Fire:** Lists the number of shots per minute that the weapon is able to fire.

**Rear Profile:** This profile is used for familiarization of the rear view of the vessel.

**Refresh Rate:** Is given in watts and shows how fast the shields will replenish themselves.

**Replicators:** Lists the vessel's ability to create materials and equipment.

**Secondary Reactor Output:** List the output of the secondary power source in watts.

**Sensor Index Values:** Is a general guide to the vessel's sensor abilities. The index norm is based on the Heavy Cruiser.

**Shield Dimensions:** Listed in meters for the normal operating dimensions of the shields.

**Shield Index:** Is given as general guide to the vessel's overall shield power. The index norm is based on the Heavy Cruiser.

**Shield Rating:** Lists the specification of the shields.

**Ship Name:** Is an alphabetical listing along with their naval construction contract numbers for the vessels that have been authorized for construction.

**Shuttlecraft Bays:** Listed below are the general dimensions for each category of shuttlecraft bay.

**Small Bay:** Landing area dimensions of 20-800 sq.m with a normal deck height of 2.4-6 meters. Vehicle storage area dimensions of 20-800 sq.m with a normal deck height of 2.4 meters.

**Medium Bay:** Landing area dimensions of 800-2000 sq.m with a normal deck height of 6-10 meters. Vehicle storage area dimensions of 800-2000 sq.m with a normal deck height of 2.4 meters.

**Large Bay:** Landing area dimensions of 2000-10000 sq.m with a normal deck height of 6-10 meters. Vehicle storage area dimensions of 2000-10000 sq.m with a normal deck height of 2.4-3.2 meters.

**Super Bay:** Landing area dimensions of 10000+ sq.m with a normal deck height of 8-12 meters. Vehicle storage area dimensions of 10000+ sq.m with a normal deck height of 2.4-4.8 meters.

**Shuttlecraft Specifications:** Lists the number of docking ports, shuttlecraft bays, number and type of shuttlecrafts and lifeboats.

**Silhouettes:** Is given for both recognition and to show the vessels' target area from various profiles. The smaller the area, the harder the ship is to target from that profile. The area values do not take into consideration the vessel's electronic counter measures.

**Size Comparison:** Gives port views for a comparison of the vessels' size in relation to other vessels.

**Speed vs. Time:** Is a graph that shows warp speed vs. time.

**Std. Ships Complement:** Is the standard number of crew members for the vessel. The listing is broken up into Officers, Crew and Troops.

**Stock:** Is given if the weapon has a finite supply of shots.

**Telemetry:** Lists the number of communication channels available for transmission of data and the power output of those transmissions listed in watts.

**Top Profile:** This profile is used for familiarization of the top view of the vessel.

**Total Target Area:** Is created by adding the top, port and front areas to give a generalization of the vessels overall target size.

**Tractor Beam Specifications:** Uses a tractor beam load calculator to calculate range vs. tonnage at each warp speed (See Tractor Beam on page SRM1 05:01:01:01 for information on how to use).

**Tractor Beams:** Is given for both the max. range and tow capacity.

**Transporters:** Lists the total number and type of units.

**Type:** Is a general term used to categorize the crafts abilities.

**Class 1:** Is used for starships that are designed with flexibility in their operating parameters.

**Class 2:** Is used for support ships that are designed for a specific mission and don't have much flexibility in their design.

**Class 3:** Is used for space station and habitable space facilities. The general rule is that the complex has recreational facilities and permanent residences.

**Class 4:** Is used for space facilities such as dry docks and refineries, generally not used as habitable environments.

**Class 5:** Is used for shuttlecraft and small support vessels.

**Class 6:** Is used for automated craft and facilities with little or no habitable environment provided for in the design.

**Class 7:** Is used to designate non-powered, space-going vessels such as cargo containers.

**Class 8:** Is used to designate items such as torpedoes, probes and buoys.

**Vessel Power Index:** Is given as general guide to the craft's overall weapon power. The index norm is based on the Heavy Cruiser.

**Warp Engine Output:** Lists the Intermix chamber output in watts.

**Warp Fields:** Shows the field curvature around the vessel at optimum field configuration. The more slender the lateral field the less energy needed to propel the craft through space.

**Warp Power Index:** Is given as general guide to the craft's overall warp power. The index norm is based on the Heavy Cruiser.

**Warp Speed/Power Graph:** Is a two-sided graph used to show the power consumption based on the speed of the vessel.

**Warp Units:** Lists the warp drive model number.

**Weapon (Type) Total:** Gives the number of banks/bays and how many phasers/tubes per bank/bay. (A weapon location is given for the position of each weapon facing and can be used as a general guide of the weapon's angle of attack).



## STARSHIPS

## General Information

## Warp Conversion



NEW WARP NUMBER	OLD WARP NUMBER	MULTIPLE OF LIGHT	KILOMETERS PER SECOND
1.0	1.000	1.000	3.000E+08
1.5	1.500	3.375	1.013E+09
2.0	2.000	8.000	2.400E+09
2.5	2.500	15.625	4.688E+09
3.0	3.000	27.000	8.100E+09
3.5	3.500	42.875	1.286E+10
4.0	4.000	64.000	1.920E+10
4.5	4.500	91.125	2.734E+10
5.0	5.000	125.000	3.750E+10
5.5	5.500	166.375	4.991E+10
6.0	6.000	216.000	6.480E+10
6.5	6.500	274.625	8.239E+10
7.0	7.000	343.000	1.029E+11
7.5	7.500	421.875	1.266E+11
8.0	8.000	512.000	1.536E+11
8.5	8.500	614.125	1.842E+11
9.0	9.000	729.000	2.187E+11
9.1	9.148	765.055	2.295E+11
9.2	9.247	790.555	2.372E+11
9.3	9.347	816.815	2.450E+11
9.4	9.448	843.242	2.530E+11
9.5	9.548	870.441	2.611E+11
9.6	9.649	898.219	2.695E+11
9.7	10.034	1010.245	3.031E+11
9.8	10.638	1203.979	3.612E+11
9.9	11.739	1617.812	4.853E+11
9.91	11.908	1688.707	5.066E+11
9.92	12.098	1770.638	5.312E+11
9.93	12.313	1866.633	5.600E+11
9.94	12.560	1981.553	5.945E+11
9.95	12.853	2123.180	6.370E+11
9.96	13.210	2305.081	6.915E+11
9.97	13.669	2554.007	7.662E+11
9.98	14.316	2934.319	8.803E+11
9.99	15.432	3675.405	1.103E+12
9.991	15.604	3799.421	1.140E+12
9.992	15.797	3941.975	1.183E+12
9.993	16.017	4108.788	1.233E+12
9.994	16.272	4308.539	1.293E+12
9.995	16.577	4555.250	1.367E+12
9.996	16.954	4873.590	1.462E+12
9.997	17.449	5312.688	1.594E+12
9.998	18.163	5992.068	1.798E+12
9.999	19.437	7343.184	2.203E+12
9.9991	19.637	7572.248	2.272E+12
9.9992	19.863	7836.429	2.351E+12
9.9993	20.121	8146.662	2.444E+12
9.9994	20.424	8519.587	2.556E+12
9.9995	20.767	8982.026	2.695E+12
9.9996	21.239	9581.403	2.874E+12
9.9997	21.836	10412.178	3.124E+12
9.9998	22.705	11704.576	3.511E+12
9.9999	24.267	14291.193	4.287E+12
9.99991	24.514	14731.186	4.419E+12
9.99992	24.792	15238.987	4.572E+12
9.99993	25.112	15835.749	4.751E+12
9.99994	25.486	16553.658	4.966E+12
9.99995	25.935	17444.704	5.233E+12
9.99996	26.496	18600.541	5.580E+12
9.99997	27.236	20204.037	6.061E+12
9.99998	28.315	22700.887	6.810E+12
9.99999	30.258	27703.301	8.311E+12
9.999991	30.565	28554.627	8.566E+12
9.999992	30.912	29537.311	8.861E+12
9.999993	31.310	30692.322	9.208E+12
9.999994	31.775	32081.924	9.625E+12
9.999995	32.335	33806.861	1.014E+13
9.999996	33.033	36044.671	1.081E+13
9.999997	33.955	39149.589	1.174E+13
9.999998	35.299	43984.988	1.320E+13
9.999999	37.721	53674.040	1.610E+13
9.9999991	38.104	55323.067	1.660E+13
9.9999992	38.536	57226.564	1.717E+13
9.9999993	39.032	59463.899	1.784E+13
9.9999994	39.612	62155.894	1.865E+13
9.9999995	40.309	65497.121	1.965E+13
9.9999996	41.180	69832.116	2.095E+13
9.9999997	42.330	75846.938	2.275E+13
9.9999998	44.005	85214.189	2.556E+13
9.9999999	47.024	103984.404	3.120E+13

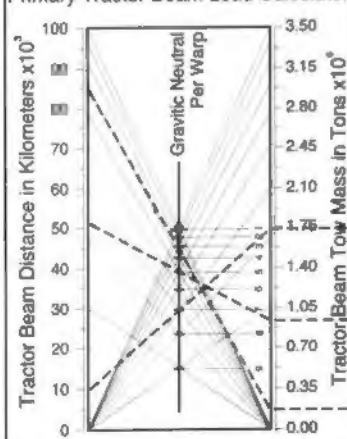
## Tractor Beam

To use the Tractor Beam Load Calculator determine the needed factors such as distance, speed and weight. To use the calculator you must have at least two of these factors known. Here is an example, if distance and speed are known, start at the right of the graph and locate the distance mark for the range. Then look to the center to find the gravitic neutral for that speed, draw a line from the distance mark through the correct speed marking. Where the line crosses the mass

line determines the maximum mass that can be towed at a given speed and range. The calculator can be used in the opposite direction to find the maximum distance or if range and distance are known a line can be drawn to determine the maximum speed that can be obtained. Each starship is unique in its distance to mass towing ratio.

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator





# STARSHIPS

## Size Comparison

GENERAL INFORMATION

FEDERATION VESSEL

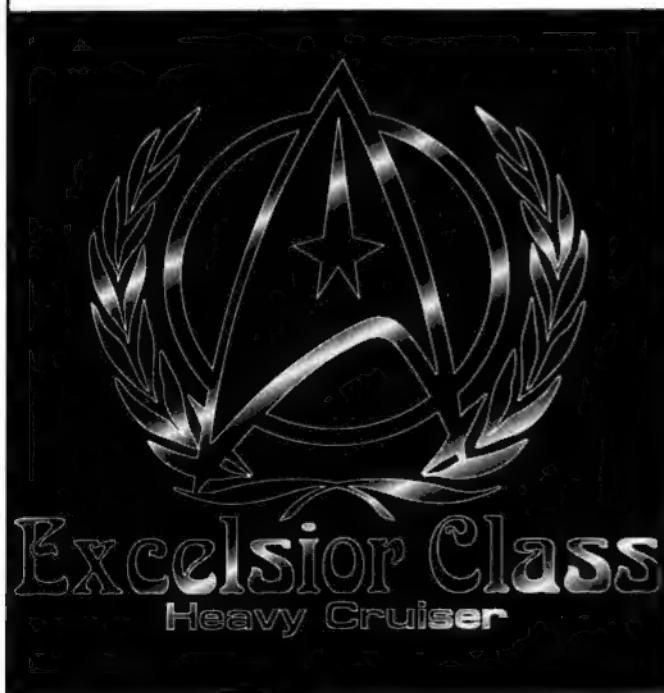


## General Information

**Specific Role:** The Heavy Cruiser is a well armed, general purpose, defense capable vessel. Built to replace the Enterprise class, the Excelsior maintains classic lines and similar duties in diplomacy and exploration.

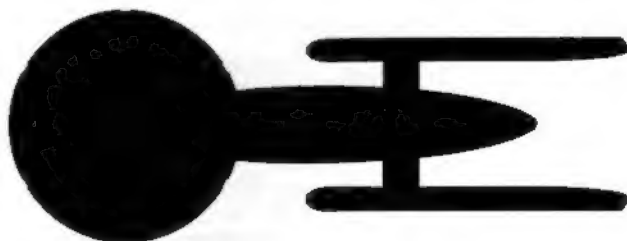
**Physical Description:** The (BS20/C-U8) bridge is centered on top of the (PH290/C-L5) primary hull and the (DN8/6N) navigational dome is centered underneath. five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (DU/190-48F) connecting dorsal mates the primary hull to the (SH258/C-L4) secondary hull. two (PB2/50-20G) photon torpedo bays are located for and aft and two (BP2/60-2C) phaser banks are located above and below the hangar bay. two banks of (BP1/30-1C) phasers are mounted underneath as well. Just below the forward photon bay is the (DN10/A18) main navigation deflector. Just above the rear photon bay is a large cargo bay. A large hangar bay is located underneath the secondary hull. The (M80/24-4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (IRF70E/8-IR) dual impulse unit located on the rear of the primary hull provides sub-light propulsion. For warp propulsion two (SW104/2-10RT) nacelles are supported by (DU/75-15F) support pylons mounted towards the rear of the secondary hull. In the event of an emergency the primary and secondary hulls can separate; each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

## Class Emblem



## Ship Silhouettes

Total Target Area 54351.47 m<sup>2</sup>



Top Silhouette  
Area 44849.64 m<sup>2</sup>



Port Silhouette  
Area 13817.43 m<sup>2</sup>



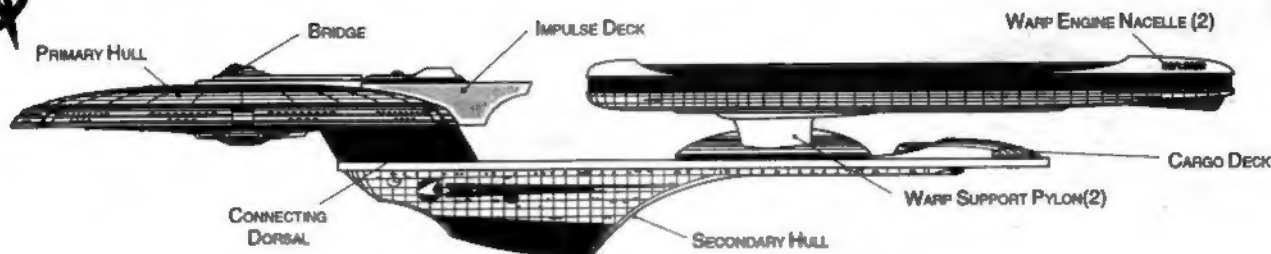
Front Silhouette  
Area 5884.40 m<sup>2</sup>



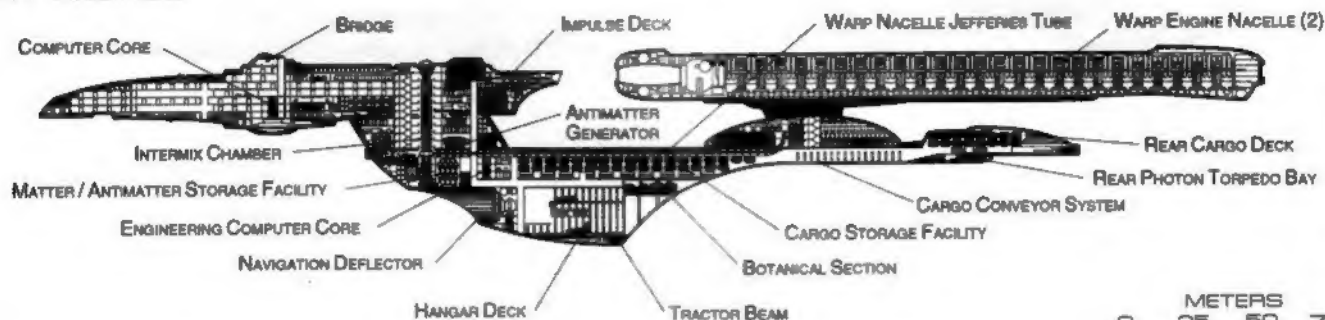
# SPACE CONTROL SHIP

EXCELSIOR CLASS

FEDERATION VESSEL



## PORT PROFILE



METERS  
0 25 50 75  
SCALE 1:3000

## CROSS SECTION

## Statistics

**Classification:** Heavy Cruiser

**Category:** Cruiser

**Class:** Excelsior

**Type:** Class 1

**Model:** MK-IXa

**Naval Construction Contract:** 2000/1700B

**Number Proposed:** 97

**Number Constructed:** 78

**Number in Service:** 74

**Number Lost:** 4

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 467.05 m

Width: 177.21 m

Height: 74.83 m

**Primary Hull Dimensions (Meters)**

Length: 198.51 m

Width: 177.21 m

Height: 30.71 m

**Secondary Hull Dimensions (Meters)**

Length: 271.79 m

Width: 58.76 m

Height: 43.93 m

**Warp Unit Dimensions (Meters)**

Length: 247.08 m

Width: 17.70 m

Height: 20.33 m

**Displacement (Metric Tons)**

Light: 368761 mt

Standard: 395086 mt

Full Load: 441042 mt

**Performance:** mt

**Impulse Units:** Dual Unit (IRF70E/8-IR)

**Impulse Engine Output:** 1.84E+14 W

**Impulse Power Index:** 1.00

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.181 sec.

0.25-0.50 Impulse: 0.286 sec.

0.50-0.75 Impulse: 0.381 sec.

0.75-Full Impulse: 0.477 sec.

**Warp Units:** 2 Nacelle Units (SW104/2-10RT)

**Warp Engine Output:** 1.04E+16 W

**Warp Power Index:** 1.00

**Optimum Speed:** 5

**Max. Safe Cruising:** 7

**Emergency Speed:** 8.5

**Max. Speed:** 9.25

**Destructive Speed:** 9.5

**Acceleration Power:** 3

**Acceleration Times:**

Warp 1 - Warp 2: 0.201 sec.

Warp 2 - Warp 3: 0.322 sec.

Warp 3 - Warp 4: 1.217 sec.

Warp 4 - Warp 5: 1.749 sec.

Warp 5 - Warp 6: 1.870 sec.

Warp 6 - Warp 7: 2.021 sec.

Warp 7 - Warp 8: 2.594 sec.

Warp 8 - Warp 9: 3.710 sec.

Warp 9 - Warp 9.5: 8.245 sec.

Warp 9.5 - Warp 9.75: 9.552 sec.

Warp 9.75 - Warp 9.9: 19.807

**Duration (Years)**

Standard: 6 Years

Maximum: 24 Years

**Std. Ship Complement:** 821

**Officers:** 131

**Crew (Ensign Grade):** 638

**Troops:** 52

**Passengers:** 90

**Emergency condition:** + 1103

**Medical Facilities:**

**Doctors:** 9

**Nurses:** 20

**Operating Rooms:** 7

**Beds:** 47

**Laboratories:** 12

**Transporters Total:** 24

**1 Person:** 0

**2 Person:** 0

**6 Person:** 8

**12 Person:** 0

**22 Person:** 8

**Small Cargo:** 4

**Medium Cargo:** 4

**Large Cargo:** 0

**Super Cargo:** 0

**Brigs:** 24

**Replicators:** 30

**Tractor Beams:**

**Tow Capacity:** 7.60E+06 mt

**Max Range:** 1.77E+05 km

**Cargo Specification:**

**Standard Cargo Units:** 900

**Cargo Capacity:** 45000 mt

**Shuttlecraft Specifications:**

**Docking Ports:** 2

**Shuttlecraft Bays Total:** 1

**Small Bay:** 0

**Medium Bay:** 1

**Large Bay:** 0

**Super Bay:** 0

**Shuttlecraft Standard:** 35

**Work Bees:** 2

**Travel Pods:** 2

**Aquatic Shuttle:** 1

**Light Shuttle:** 1

**Standard Shuttle:** 8

**Heavy Shuttle:** 1

**Cargo Shuttle:** 1

**Assault Shuttle:** 5

**Killer Bees:** 3

**Light Fighter:** 4

**Fighter:** 4

**Heavy Fighter:** 3

**Lifeboats:** 88

**Turbolift (8 person):** 49

**Lifeboat (10 person):** 27

**Lifeboat (20 person):** 11

**Lifeboat (30 person):** 1

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 1.0000

**Stellar Survey:** 1.0000

**Short Range:** 1.0000

**Long Range:** 1.0000

**Navigation:** 1.0000

**Special:** 1.0000

**Computers:** 2

**Type:** Daystrom Duotronic IV:o

**Type:** Daystrom Duotronic III:q

**ECM Index:** 1.00

**Shield Rating:**

**Shield Index:** 1.00

**Holdoff Power:** 1.13E+12 W

**Refresh Rate:** 3.20E+11 W

**Breakdown Rate:** 3.84E+11 W

**Shield Dimensions (Meters)**

**Length:** 700.58 m

**Width:** 265.82 m

**Height:** 112.40 m

**Weapons:**

**Phaser Power Index:** 1.000

**Photon Power Index:** 1.000

**Vessel Power Index:** 1.000

**Weapon Placement:**

**Beam (Phasers) Total:** 16 banks 2 each

**Output:** 7.50E+11 W/3.7E11 W

**Range:** 4.10E+05 km

**Rate of Fire:** 40 ppm/Cont.

**Forward Banks:** 4

**Rear Banks:** 2

**Port Banks:** 4

**Starboard Banks:** 4

**Upper Banks:** 0

**Lower Banks:** 2

**Beam (MegaPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** 4 Bays

**Stock:** 120

**Range:** 2.90E+05 km

**Output:** 10-55 Megatons

**Rate of Fire:** 15 spm

**Forward Bay:** 2

**Rear Bay:** 2

**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

**Lower Bay:** 0

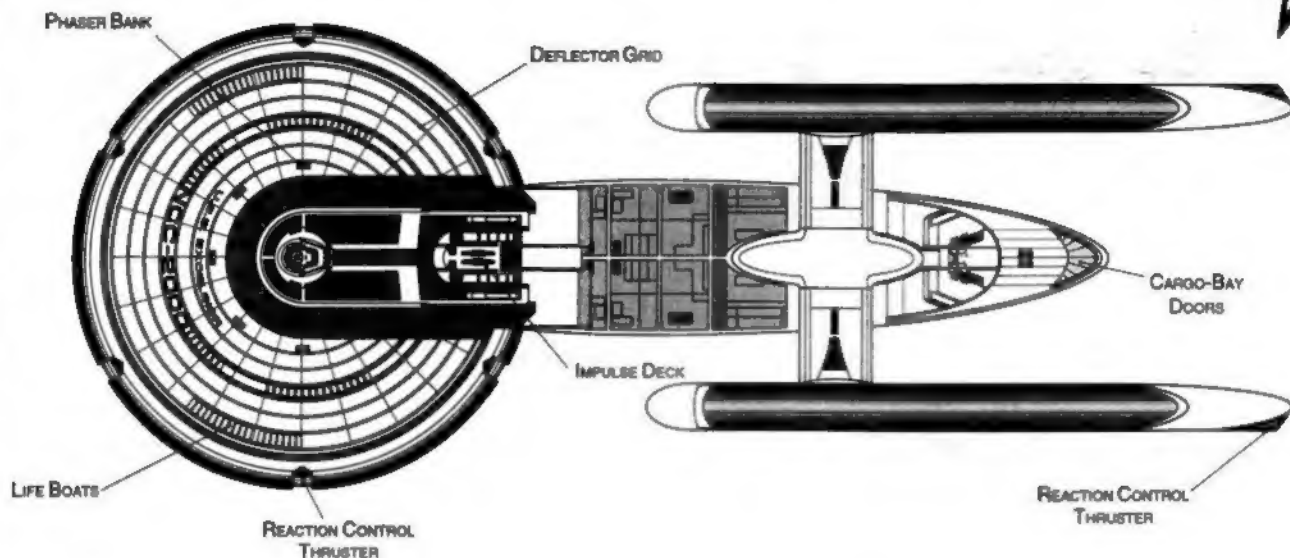


# SPACE CONTROL SHIP

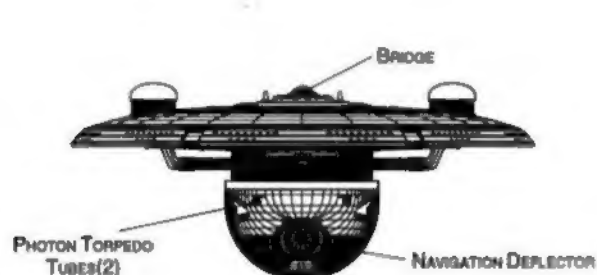


EXCELSIOR CLASS

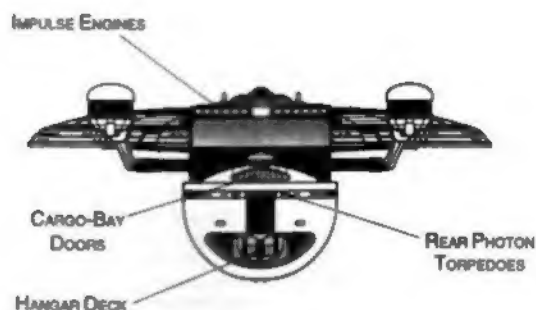
FEDERATION VESSEL



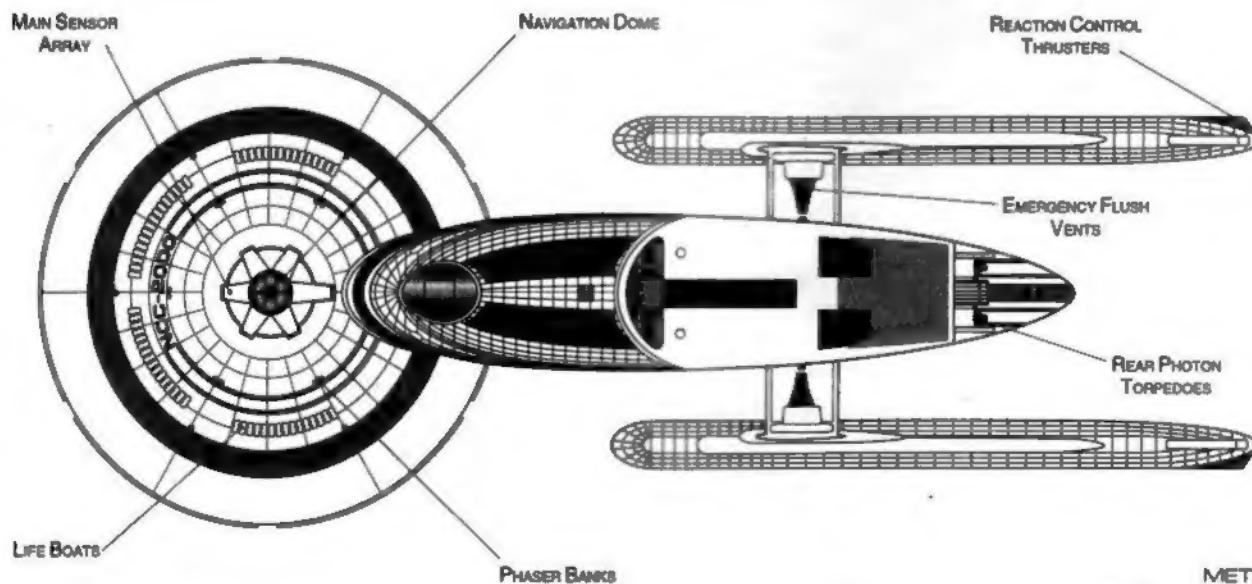
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS  
0 25 50 75  
SCALE 1:3000



# SPACE CONTROL SHIP

## Ship Names

THE FOLLOWING SHIPS OF THE MK-IX CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2285.2

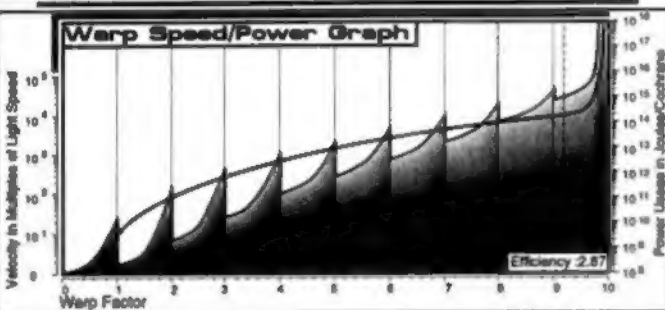
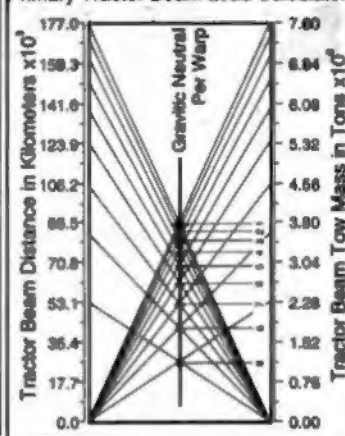
ACHERNAR • NCC-1732B+	EXETER • NCC-1706B	MENGEN • NCC-1773B***+	SARIADAGOSA • NCC-1724B+
ALFERAZ • NCC-1781B***+	FARRAGATE • NCC-1702B	MERIMAC • NCC-1715B	SHAR • NCC-1745B+
ALFR • NCC-1741B+	FEARLESS • NCC-1450B	MIRAZH • NCC-1786B***+	SINULI • NCC-1770B+
ANDROCUS • NCC-1738B+	GALINA • NCC-1784B+	MONDOLOY • NCC-1740B	SIRIUS • NCC-1744B+
ANNOBON • NCC-1752B+	GHAR • NCC-1786B***+	MONGO • NCC-1785B***+	SOL • NCC-1733B+
ARI • NCC-1723B	GHONDR • NCC-1749B+	MONITOR • NCC-1713B	SPICA • NCC-1731B+
ASTRAD • NCC-1739B+	GORKON • NCC-40512	NDELE • NCC-1750B+	TAJARHI • NCC-1783B***+
BERLIN • NCC-14232	HAIJ • NCC-1782B***+	OBLIK • NCC-1772B***+	TALI • NCC-1751B+
BONHOMME RICHARD • NCC-1712B**	HOOD • NCC-42266	OMARU • NCC-1781B***+	TEMIR • NCC-1763B+
CAIRO • NCC-42136	HORNET • NCC-1714B	PAEGAN • NCC-1755B+	THELONII • NCC-1742B+
CASPAN • NCC-1753B+	INTREPID • NCC-36907	PARI • NCC-1787B***+	THOLUS • NCC-1747B+
CHARLSTON • NCC-42285	JASSAN • NCC-1754B+	PELIONE • NCC-1750B+	TORI • NCC-1725B
CONSTELLATION • NCC-1728B	JUPITER • NCC-1734B+	PHARDOS • NCC-1757B+	TULAN • NCC-1777B***+
CONSTITUTION • NCC-1700B	KAP SALU • NCC-1767B+	PILAR • NCC-1746B+	VALIANT • NCC-1709B
DEFIANCE • NCC-1717B	KARS • NCC-1789B+	POTEMPKIN • NCC-8253	VEGA • NCC-1730B+
EAGLE • NCC-1719B	KASIMAR • NCC-1784B***+	PROCYON • NCC-1756B+	WASP • NCC-1721B
EIKNUS • NCC-1771B***+	KESTRAL • NCC-1768B+	PROGMA • NCC-1737B+	XANTHI • NCC-1743B+
EL DORADO • NCC-1722B	KETOI • NCC-1768B+	QUAL'AT • NCC-1778B***+	YAAN • NCC-1762B+
ENDEAVOR • NCC-1716B+	KONGO • NCC-1710B	QUINDAR • NCC-1736B+	YORKTOWN • NCC-1704B
ENTERPRISE • NCC-1701B+	KRIEGER • NCC-1726B	QUIZAH • NCC-1775B***+	ZAAHA • NCC-1790B***+
ESABL • NCC-1779B***+	LAFAYETTE • NCC-1720B+	REPUBLIC • NCC-1729B***+	ZA-FARAN • NCC-1760B+
ESKIS • NCC-1780B***+	LEXINGTON • NCC-1703B	REPULSE • NCC-2544	ZINDAR • NCC-1759B+
ESSEX • NCC-1727B	MAZDA • NCC-1778B***+	REGIL CENTAURI • NCC-1739B+	
EXCALIBUR • NCC-1705B	MELBOURNE • NCC-82043**	SALAYNA • NCC-1774B***+	
EXCELSIOR • NCC-2007		SAMAARA • NCC-1765B+	

+ Upgrade Version

CLASS SHIP "LOST IN THE LINE OF DUTY." "PROPOSED. ALL NAMES PRECEDED WITH U.S.S.

## Tractor Beam Specifications

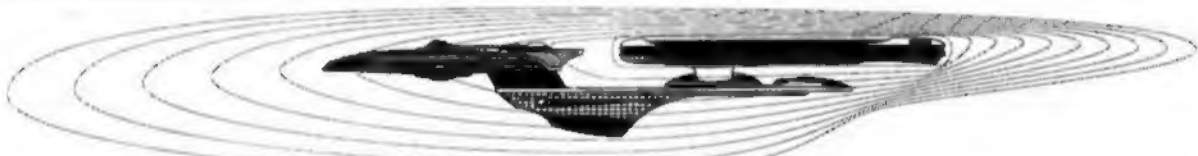
Primary Tractor Beam Load Calculator



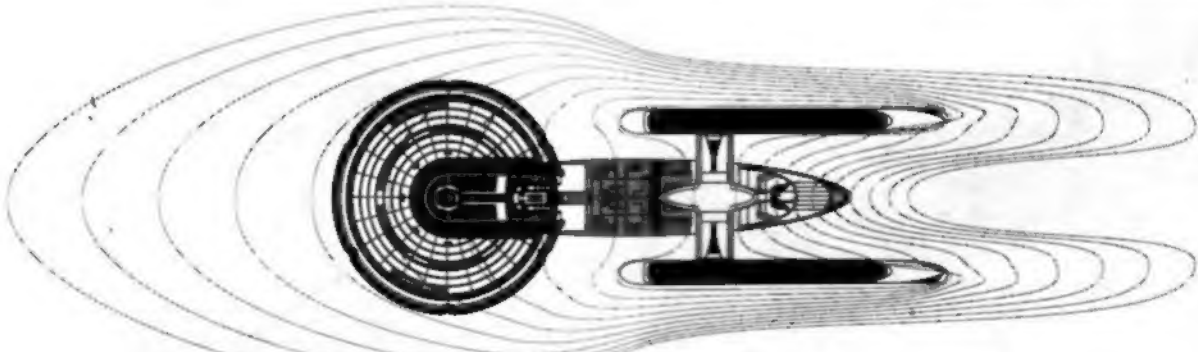
Field Length 885.77m  
Field Width 288.82m  
Field Height 127.06m



Front Warp Field Profile  
Cross Section Area 25312.74 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 80827.75 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 172803.88 m<sup>2</sup>

## WARP FIELDS

## SPACE CONTROL SHIP

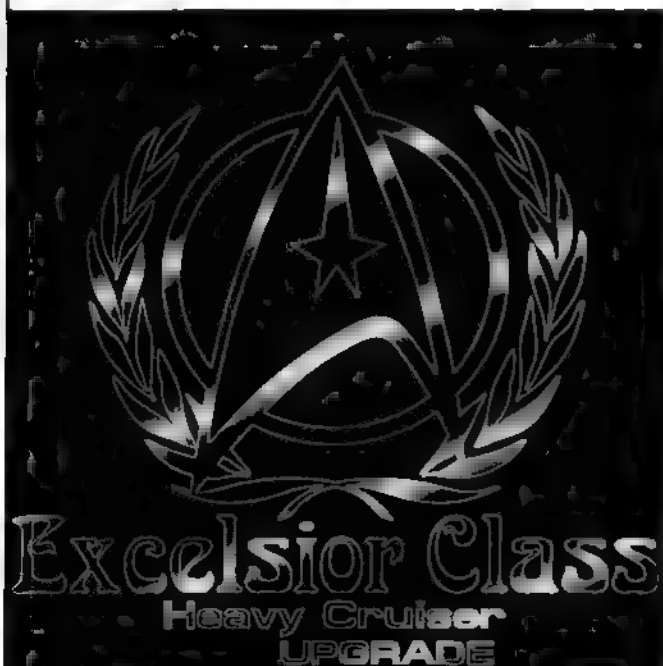


## General Information

**Specific Role:** The Heavy Cruiser is a well armed, general purpose, defense capable vessel. Built to replace the Enterprise class, the Excelsior class maintains classic lines and similar duties in diplomacy and exploration. Hull reinforcements on either side of the navigation deflector were added after a few prototypes experienced heavy damage in relatively light battles.

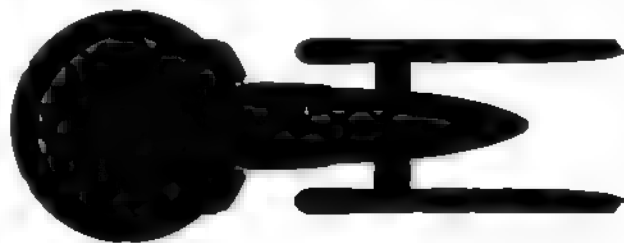
**Physical Description:** The (BS20/C-U8) bridge is centered on top of the (PH290/C-L5U) primary hull and the (DN8/6N) navigational dome is centered underneath. five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (DU/190-48F) connecting dorsal mates the primary hull to the (SH258/C-L4U) secondary hull. two (PB2/50-20G) photon torpedo bays are located for and aft and two (BP2/60-2C) phaser banks are located above and below the hangar bay. two banks of (BP1/30-1C) phasers are mounted underneath as well. Just below the forward photon bay is the (DN10/A18U) main navigation deflector. Just above the rear photon bay is a large cargo bay. A large hangar bay is located underneath the secondary hull. The (M80/24-4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (IRF70E/8-IR) dual impulse drive is located on the rear of the primary hull to provide sub-light propulsion. two additional hangar bays are located to either side of the impulse drive. For warp propulsion two (SW104/2-12RU) nacelles are supported by (DU/75-15F) support pylons mounted towards the rear of the secondary hull. In the event of an emergency the primary and secondary hulls can separate; each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

## Class Emblem



## Ship Silhouettes

Total Target Area 58559.55 m<sup>2</sup>



Top Silhouette  
Area 45154.57 m<sup>2</sup>



Port Silhouette  
Area 14318.74 m<sup>2</sup>



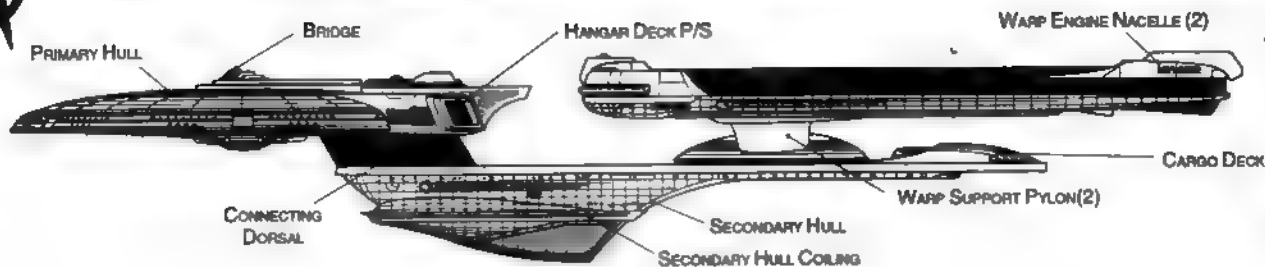
Front Silhouette  
Area 5859.55 m<sup>2</sup>



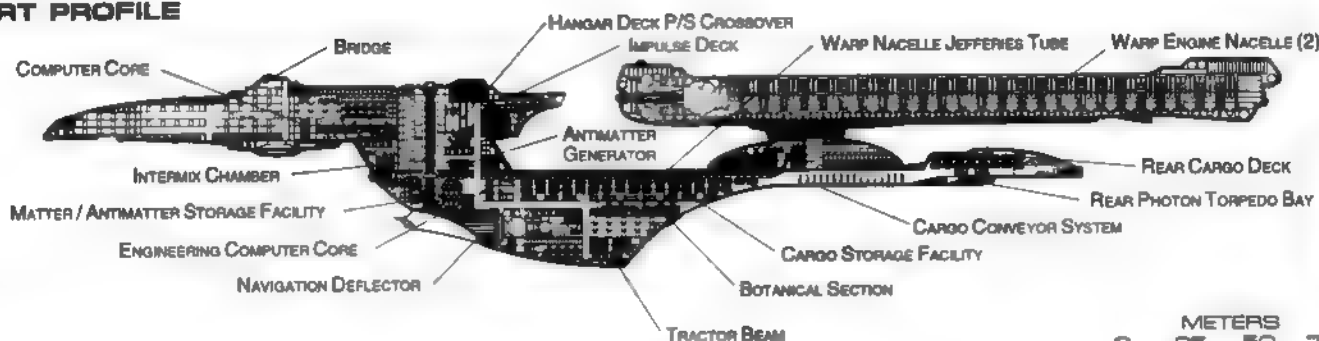
# SPACE CONTROL SHIP

EXCELSION CLASS UPGRADE

FEDERATION VESSEL



## PORT PROFILE



METERS  
0 25 50 75  
SCALE 1:3000

## CROSS SECTION

# Statistics

**Classification:** Heavy Cruiser

**Category:** Cruiser

**Class:** Excelsior

**Type:** Class 1

**Model:** MK-IXal

**Naval Construction Contract:** 2000/1700B

**Number Proposed:** 97

**Number Constructed:** 78

**Number in Service:** 74

**Number Lost:** 4

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 470.88 m

Width: 177.21 m

Height: 78.86 m

**Primary Hull Dimensions (Meters)**

Length: 198.51 m

Width: 177.21 m

Height: 30.71 m

**Secondary Hull Dimensions (Meters)**

Length: 271.79 m

Width: 66.60 m

Height: 43.93 m

**Warp Unit Dimensions (Meters)**

Length: 253.29 m

Width: 19.89 m

Height: 24.32 m

**Displacement (Metric Tons)**

Light: 378083 mt

Standard: 405073 mt

Full Load: 452191 mt

**Performance:**

**Impulse Units:** Dual Unit (IRF70E/B-IR)

**Impulse Engine Output:** 1.68E+14 W

**Impulse Power Index:** 1.11

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.182 sec.

0.25-0.50 Impulse: 0.286 sec.

0.50-0.75 Impulse: 0.382 sec.

0.75-Full Impulse: 0.477 sec.

**Warp Units:** 2 Nacelle Units (SW104/2-12RU)

**Warp Engine Output:** 1.18E+16 W

**Warp Power Index:** 1.11

**Optimum Speed:** 5

**Max. Safe Cruising:** 7

**Emergency Speed:** 8.6

**Max. Speed:** 9.35

**Destructive Speed:** 9.6

**Acceleration Power:** 3

**Acceleration Times:**

Warp 1 - Warp 2: 0.181 sec.

Warp 2 - Warp 3: 0.290 sec.

Warp 3 - Warp 4: 1.097 sec.

Warp 4 - Warp 5: 1.577 sec.

Warp 5 - Warp 6: 1.686 sec.

Warp 6 - Warp 7: 1.822 sec.

Warp 7 - Warp 8: 2.336 sec.

Warp 8 - Warp 9: 3.344 sec.

Warp 9 - Warp 9.5: 7.431 sec.

Warp 9.5 - Warp 9.75: 8.609 sec.

Warp 9.75 - Warp 9.9: 17.853

**Duration (Years)**

Standard: 6 Years

Maximum: 24 Years

**Std. Ships Complement:** 873

**Officers:** 139

**Crew (Ensign Grade):** 679

**Troops:** 55

**Passengers:** 105

**Emergency condition:** + 1173

**Medical Facilities:**

**Doctors:** 9

**Nurses:** 20

**Operating Rooms:** 7

**Beds:** 47

**Laboratories:** 17

**Transporters Total:** 25

1 Person: 0

2 Person: 0

6 Person: 8

12 Person: 0

22 Person: 8

Small Cargo: 5

Medium Cargo: 4

Large Cargo: 0

Super Cargo: 0

**Brigs:** 27

**Replicators:** 33

**Tractor Beams:**

Tow Capacity: 7.83E+06 mt

Max Range: 1.82E+05 km

**Cargo Specification:**

Standard Cargo Units: 971

Cargo Capacity: 48550 mt

**Shuttlecraft Specifications:**

Docking Ports: 2

Shuttlecraft Bays Total: 2

Small Bay: 0

Medium Bay: 2

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 88

Work Boes: 4

Travel Pods: 4

Aquatic Shuttle: 2

Light Shuttle: 2

Standard Shuttle: 16

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 8

Killer Boes: 6

Light Fighter: 8

Fighter: 8

Heavy Fighter: 6

Lifeboats: 81

Turbolift (8 person): 43

Lifeboat (10 person): 26

Lifeboat (20 person): 11

Lifeboat (30 person): 1

**Cloaking Devices:** 0

**Sensor Index Values:**

Planetary Survey: 1.0769

Stellar Survey: 1.0506

Short Range: 1.0506

Long Range: 1.0250

Navigation: 1.0506

Special: 1.2184

**Computers:** 2

Type: Daystrom Duotronic IV-o

Type: Daystrom Duotronic III q

**ECM Index:** 1.03

**Shield Rating:**

Shield Index: 1.10

Holdoff Power: 1.24E+12 W

Refresh Rate: 3.51E+11 W

Breakdown Rate: 4.22E+11 W

Shield Dimensions (Meters)

Length: 706.02 m

Width: 265.82 m

Height: 118.29 m

**Weapons:**

**Phaser Power Index:** 1.000

**Photon Power Index:** 1.000

**Vessel Power Index:** 1.000

**Weapon Placement:**

**Beam (Phasers) Total:** 16 banks 2 each

**Output:** 7.50E+11 W / 3.7E11 W

**Range:** 4.10E+05 km

**Rate of Fire:** 40 ppm / Cont.

**Forward Banks:** 4

**Rear Banks:** 2

**Port Banks:** 4

**Starboard Banks:** 4

**Upper Banks:** 0

**Lower Banks:** 2

**Beam (MegaPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** 4 Bays

**Stock:** 120

**Range:** 2.90E+05 km

**Output:** 10-55 Megatons

**Rate of Fire:** 15 spm

**Forward Bay:** 2

**Rear Bay:** 2

**Port Bay:** 0

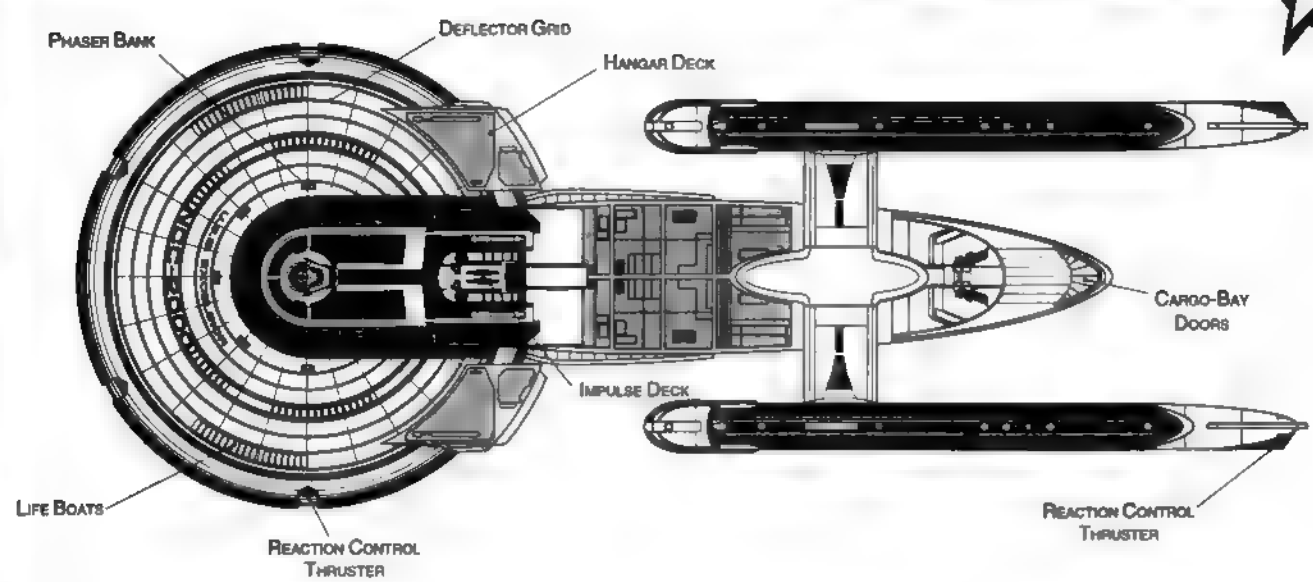
**Starboard Bay:** 0

**Upper Bay:** 0

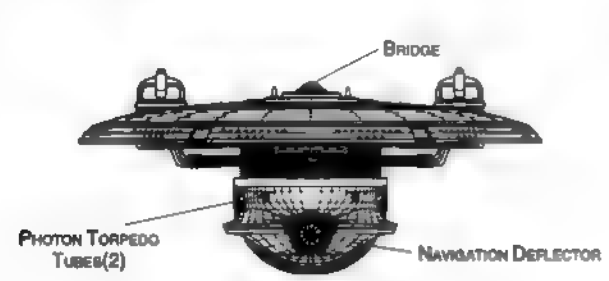
**Lower Bay:** 0



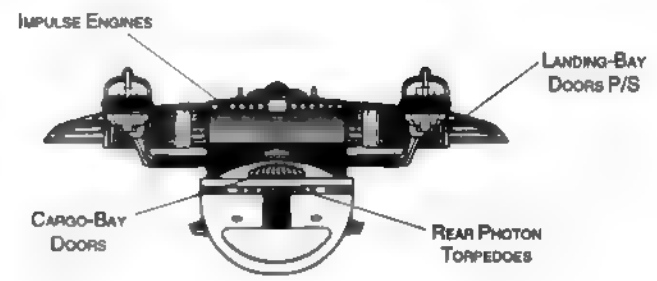
# SPACE CONTROL SHIP



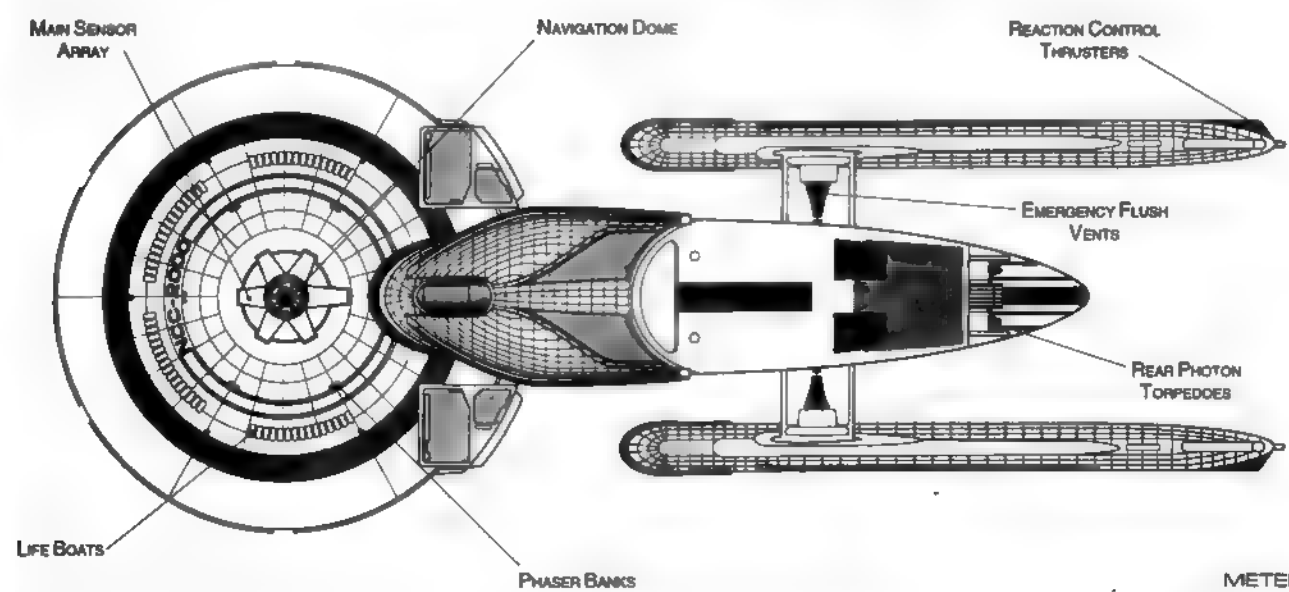
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE





# SPACE CONTROL SHIP

## Ship Names

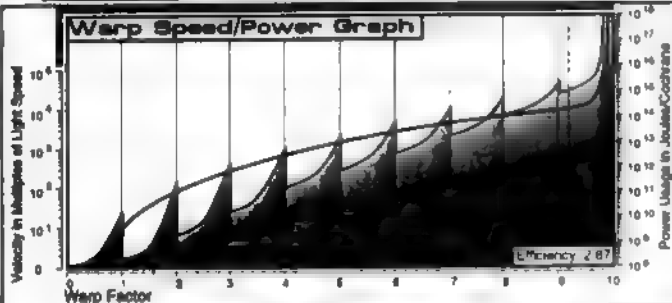
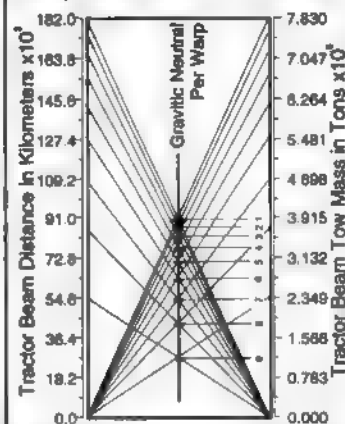
THE FOLLOWING SHIPS OF THE MK-IXa1 CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2287.9

ACHERNAR • NCC-1732B+	EXETER • NCC-1706B	MENGEN • NCC-1773B***+	SARIADAGOSA • NCC-1724B+
ALFERAZ • NCC-1781B***+	FARRAGATE • NCC-1702B	MERRIMAC • NCC-1715B	SHAR • NCC-1745B+
ALFR • NCC-1741B+	FEARLESS • NCC-1458B	MIRAZH • NCC-1788B***+	SIMULI • NCC-1770B+
ANDROCUS • NCC-1738B+	GALINA • NCC-1784B+	MONDOLOY • NCC-1740B	SIRIUS • NCC-1744B+
ANNOBON • NCC-1752B+	GHAR • NCC-1786B***+	MONGO • NCC-1785B***+	SOL • NCC-1733B+
ARI • NCC-1723B	GHONDR • NCC-1749B+	MONITOR • NCC-1713B	SPICA • NCC-1731B+
ASTRAD • NCC-1739B+	GORKON • NCC-40512	NDELE • NCC-1758B+	TAJARH • NCC-1783B***+
BERLIN • NCC-14232	HAJJ • NCC-1782B***+	OBLIK • NCC-1722B***+	TALI • NCC-1751B+
BONHOMME RICHARD • NCC-1712B	HOOD • NCC-4229B	OOMARU • NCC-1761B***+	TEMIR • NCC-1783B+
CAIRO • NCC-4213B	HORNET • NCC-1714B	PAEGAN • NCC-1755B+	THELONI • NCC-1742B+
CASPAN • NCC-1753B+	INTREPID • NCC-38907	PARI • NCC-1787B***+	THOLUS • NCC-1747B+
CHARLSTON • NCC-42285	JASSAN • NCC-1754B+	PELIONE • NCC-1750B+	TORI • NCC-1725B
CONSTELLATION • NCC-1728B	JUPITER • NCC-1734B+	PHARDOS • NCC-1757B+	TULAN • NCC-1777B***+
CONSTITUTION • NCC-1700B	KAP SALU • NCC-1767B+	PILAR • NCC-1748B+	VALANT • NCC-1709B
DEFIANCE • NCC-1717B	KARS • NCC-1769B+	POTEMPKIN • NCC-8253	VEGA • NCC-1730B+
EAGLE • NCC-1719B	KASIMAR • NCC-1784B***+	PROCYON • NCC-1758B+	WASP • NCC-1721B
EKINUS • NCC-1771B***+	KESTRAL • NCC-1768B+	PROXIMA • NCC-1737B+	XANTHI • NCC-1743B+
EL DORADO • NCC-1722B	KONGO • NCC-1710B	QUALAT • NCC-1776B***+	YAAN • NCC-1762B+
ENDEAVOR • NCC-1716B+	KREGER • NCC-1726B	QUINDAR • NCC-1739B+	YORKTOWN • NCC-1704B
ENTERPRISE • NCC-1701B+	LAFAYETTE • NCC-1720B+	QUILAN • NCC-1775B***+	ZAAHM • NCC-1780B***+
ESABL • NCC-1779B***+	LEXINGTON • NCC-1703B	REPUBLIC • NCC-1729B***+	ZA-FARAN • NCC-1780B+
ESKIS • NCC-1769B***+	MAZDA • NCC-1778B***+	REGIL CENTAURUS • NCC-1735B+	ZINDAR • NCC-1759B+
ESSEX • NCC-1727B	MELBOURNE • NCC-82043**	SALAYNA • NCC-1774B***+	
EXCALIBUR • NCC-1705B		SAMAARA • NCC-1785B+	
EXCELSIOR • NCC-2000*			

\* Upgrade Version  
CLASS SHIP, "LOST IN THE LINE OF DUTY," PROPOSED, ALL NAMES PRECEDED WITH U.S.S.

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



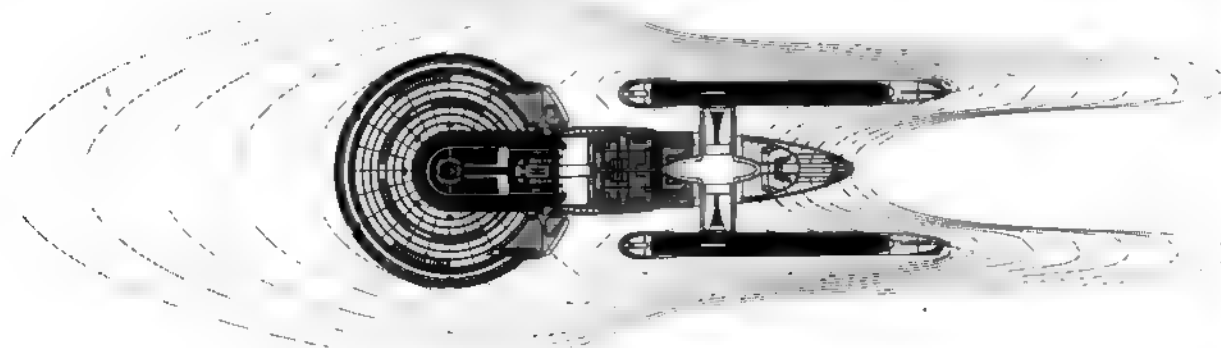
Field Length 918.38m  
Field Width 876.53m  
Field Height 125.04m



Front Warp Field Profile  
Cross Section Area 84097.82 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 81875.38 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 161275.24 m<sup>2</sup>

## WARP FIELDS

# DREADNOUGHT

## General Information



**Specific Role:** The Dreadnought's basic design makes use of many Heavy Cruiser features. The addition of a third warp nacelle gives the vessel almost Fast Destroyer acceleration and top speed while fire power has been increased through a high capacity intermix chamber. The Dreadnought's original classification as Fast Heavy Cruiser was changed due to the need for a formidable image as a diplomacy tool. The vessel is also equipped with extensive ECM equipment to help it survive.

**Physical Description:** The (PH147/D M5) primary hull is equipped with additional targeting sensors, hull reinforcements and weapons. Integrated into the standard deflector grid are additional electronic counter-measures to make the vessel more stealthy. The primary hull is equipped with the (BS12/C-D3B) tactical battle bridge which contains larger weapons, tracking and communication stations. On the lower part of the primary hull is the (SM49/7J) main sensor array and (DN4/9-L) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. To the rear of the secondary hull are two (BP2/30-2C) phaser banks. On the underside of the secondary hull are two additional (BP2/30-2C) phaser banks. Nestled between the dorsal and the secondary hull is a forward facing (PB2/25-10D) photon torpedo bay. To the rear of the primary hull are (IP186E/5-JH) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessel is also equipped with additional inertial dampeners to compensate for its increased maneuvering capabilities. The vessel's warp fields are generated by three (SW52/1-5TD) warp nacelles. The outboard nacelles are attached to the secondary hull by (DU/47-7F) support pylons while the third nacelle is attached to the primary hull by a (DU/30-5F) dorsal support pylon. Below the primary hull is the (SH121/C-H3) secondary hull joined by a (DU/50-48F) connecting dorsal. In the bow of the secondary hull is a (DN2/S-2) navigational deflector, and at the rear of the primary hull is a (DN2/C-2M) modified navigational deflector; both of which are used in conjunction with the navigational shields to deflect objects out of the path of the ship and move them into the path of pursuing vessels. At the front of the secondary hull is a medium hangar deck. Running through the connecting dorsal is the (M20/10-1C) high capacity intermix chamber, and inside the secondary hull are (AM8/42-5S) matter/antimatter storage tanks. For emergency jettisoning the storage tanks are installed immediately aft of the photon torpedo launcher. In the event of an emergency the primary and secondary hulls can separate; each being able to carry the ship's full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time, or, if the third nacelle is still attached, warp 2 on auxiliary power.

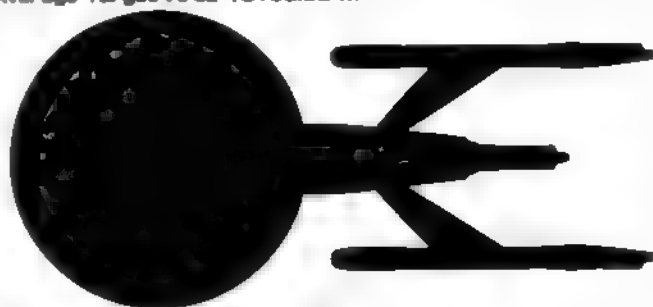
For additional detail refer to Datasheet MV-11

### Class Emblem



### Ship Silhouettes

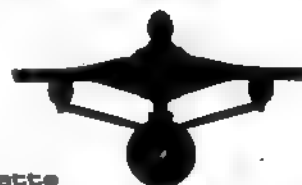
Total Target Area 39598.71 m<sup>2</sup>  
Average Target Area 13199.90 m<sup>2</sup>



Top Silhouette  
Area 23171.33 m<sup>2</sup>



Port Silhouette  
Area 11230.48 m<sup>2</sup>

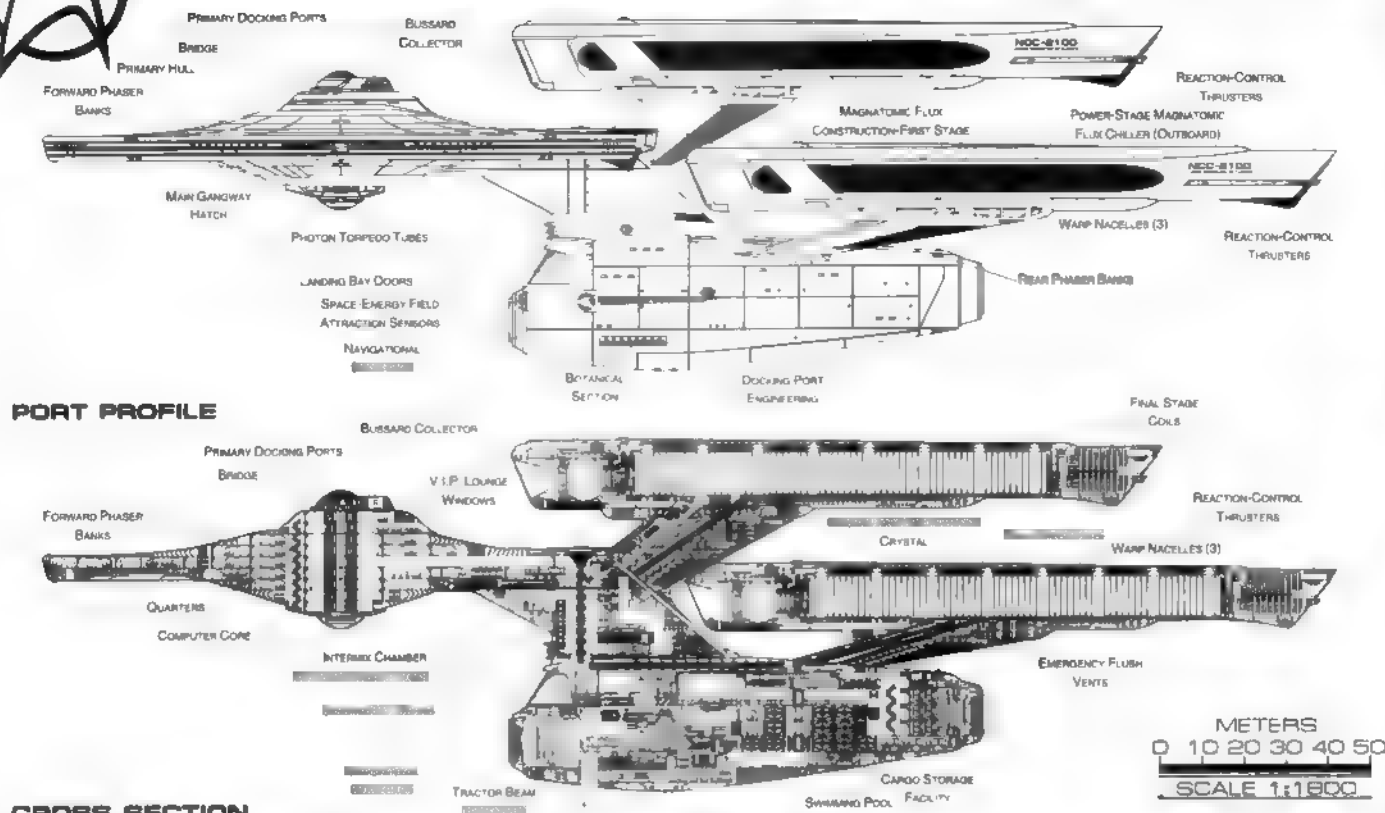


Front Silhouette  
Area 5197.89 m<sup>2</sup>



# DREADNOUGHT

STAR LEAGUE CLASS



## Statistics

**Classification:** Dreadnought

**Category:** Cruiser

**Class:** Star League

**Type:** Class 1

**Model:** MK Xa

**Naval Construction Contract:** 2100

**Number Proposed:** 50

**Number Constructed:** 20

**Number in Service:** 19

**Number Lost:** 1

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 307.7 m

Width: 141.72 m

Height: 84.11 m

**Primary Hull Dimensions (Meters)**

Length: 148.31 m

Width: 141.72 m

Height: 32.94 m

**Secondary Hull Dimensions (Meters)**

Length: 112.62 m

Width: 33.17 m

Height: 32.18 m

**Warp Unit Dimensions (Meters)**

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

**Displacement (Metric Tons)**

Light: 207595 mt

Standard: 222415 mt

Full Load: 248288 mt

**Performance:**

**Impulse Units:** Dual Unit (IRF35E/5-JH)

**Impulse Engine Output:**  $7.6 \times 10^{13}$  W

**Impulse Power Index:** 0.89

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.225 sec

0.25-0.50 Impulse: 0.338 sec

0.50-0.75 Impulse: 0.45 sec

0.75-Full Impulse: 0.563 sec

**Warp Units:** 2 Nacelle Units (SW52/1-5TD)

**Warp Engine Output:**  $1.8 \times 10^{15}$  W

**Warp Power Index:** 1.33

**Optimum Speed:** 5

**Max. Safe Cruising:** 7

**Emergency Speed:** 8.5

**Max. Speed:** 9.25

**Destructive Speed:** 9.35

**Acceleration Power:** 3

**Acceleration Times:**

Warp 1 - Warp 2: 0.15 sec

Warp 2 - Warp 3: 0.24 sec

Warp 3 - Warp 4: 0.908 sec

Warp 4 - Warp 5: 1.306 sec

Warp 5 - Warp 6: 1.396 sec

Warp 6 - Warp 7: 1.509 sec

Warp 7 - Warp 8: 1.837 sec

Warp 8 - Warp 9: 2.77 sec

Warp 9 - Warp 9.5: 6.155 sec

Warp 9.5 - Warp 9.75: 7.131 sec

Warp 9.75 - Warp 9.9: 14.787 sec

**Duration (Years)**

Standard: 4 Years

Maximum: 16 Years

**Std. Ships Complement:** 468

**Officers:** 75

**Crew (Ensign Grade):** 365

**Troops:** 26

**Passengers:** 50

**Emergency condition:** + 623

**Medical Staff:**

Doctors: 4

**Medical Staff:** 9

**Operating Rooms:** 3

**Laboratories:** 16

**Transporters Total:** 15

1 Person: 0

2 Person: 0

6 Person: 4

12 Person: 0

22 Person: 4

**Small Cargo:** 3

**Medium Cargo:** 3

**Large Cargo:** 0

**Super Cargo:** 0

**Brigs:** 26

**Replicators:** 28

**Tractor Beams:** 1

**Tow Capacity:**  $6.71 \times 10^4$  mt

**Max Range:**  $1.13 \times 10^5$  km

**Cargo Specification**

**Standard Cargo Units:** 503

**Cargo Capacity:** 25150 mt

**Shuttlecraft Specifications:**

**Docking Ports:** 5

**Shuttlecraft Bays Total:** 2

**Small Bay:** 0

**Medium Bay:** 2

**Large Bay:** 0

**Super Bay:** 0

**Work Bees:** 5

**Travel Pods:** 5

**Aquatic Shuttle:** 2

**Light Shuttle:** 2

**Standard Shuttle:** 2

**Heavy Shuttle:** 2

**Cargo Shuttle:** 2

**Assault Shuttle:** 5

**Killer Bees:** 7

**Light Fighter:** 10

**Fighter:** 10

**Heavy Fighter:** 7

**Lifeboats:** 49

**Turbolift (8 person):** 28

**Lifeboat (10 person):** 15

**Lifeboat (20 person):** 6

**Lifeboat (30 person):** 0

**Cloaking Devices:** 0

**Planetary Survey:** 1.60

**Stellar Survey:** 1.32

**Short Range:** 1.46

**Long Range:** 1.20

**Navigation:** 1.22

**Special:** 2.64

**Computers:** 2

**Type:** Daystrom Duotronic 1-III:1

**Type:** Daystrom Duotronic 1-II:2

**ECM Index:** 1.21

**Shield Rating:**

**Shield Index:** 0.27

**Holdoff Power:**  $9.84 \times 10^{11}$  W

**Refresh Rate:**  $2.8 \times 10^{11}$  W

**Breakdown Rate:**  $3.35 \times 10^{11}$  W

**Shield Dimensions (Meters)**

Length: 461.6 m

Width: 212.6 m

Height: 126.2 m

**Weapons:**

**Phaser Power Index:** 1.18

**Photon Power Index:** 0.89

**Vessel Power Index:** 1.04

**Weapon Placement:**

**Beam (Phasers) Total:** 12 banks 2 each

**Output:**  $5 \times 10^{11}$  W 2  $5 \times 10^{11}$  W

**Range:**  $2.5 \times 10^5$  km

**Rate of Fire:** 30 ppm/Cont.

**Forward Banks:** 2

**Rear Banks:** 2

**Port Banks:** 2

**Starboard Banks:** 2

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** 2 Bays

**Stock:** 25

**Range:**  $2 \times 10^5$  km

**Output:** 10-50 MT

**Rate of Fire:** 10 spm

**Forward Bay:** 1

**Rear Bay:** 0

**Port Bay:** 0

**Starboard Bay:** 0

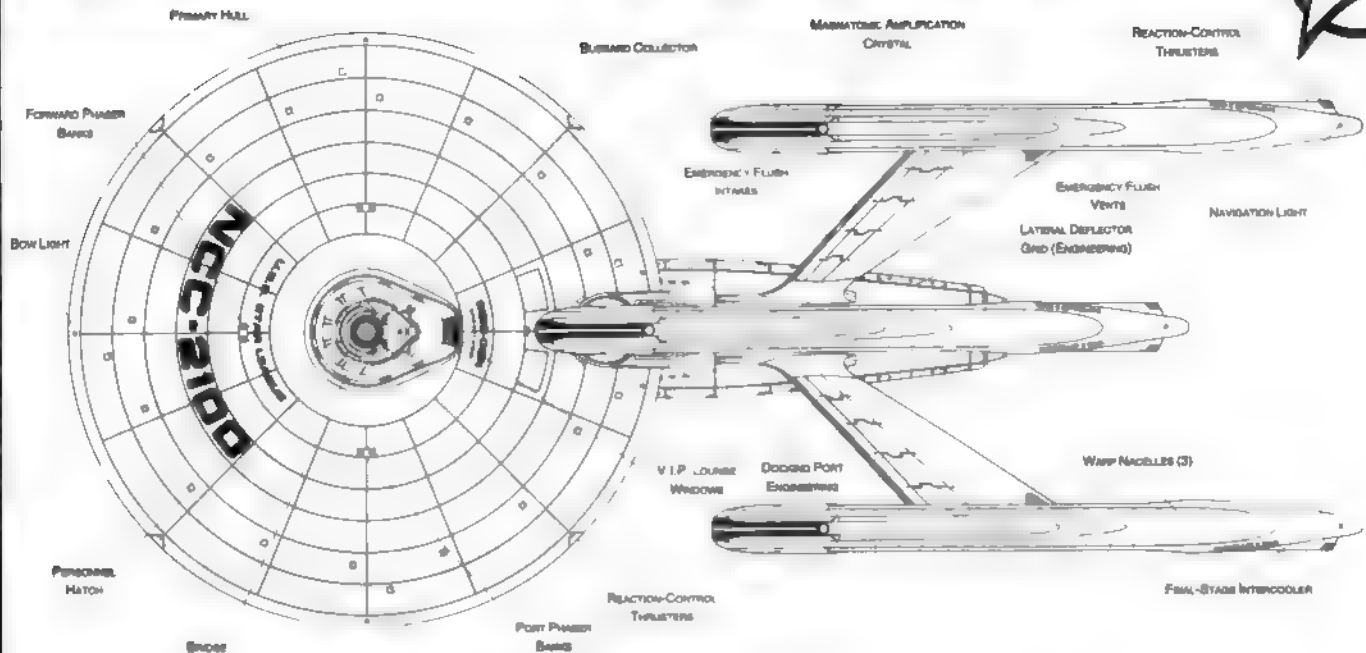
**Upper Bay:** 0

**Lower Bay:** 0

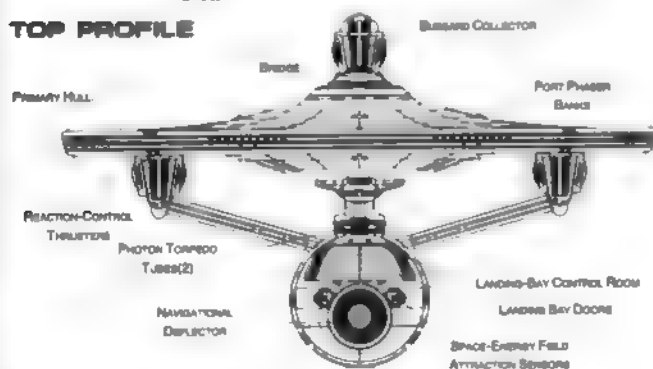
FEDERATION VESSEL



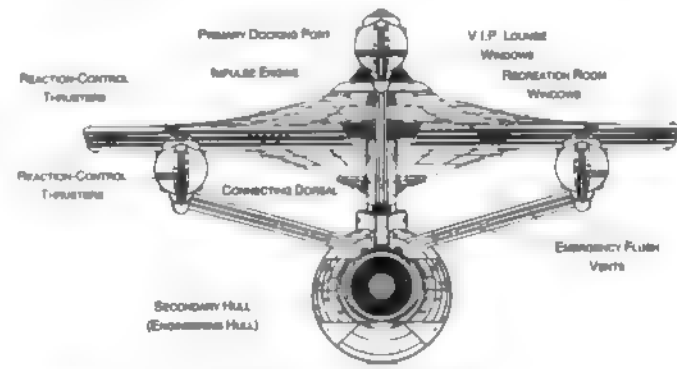
## DREADNOUGHT



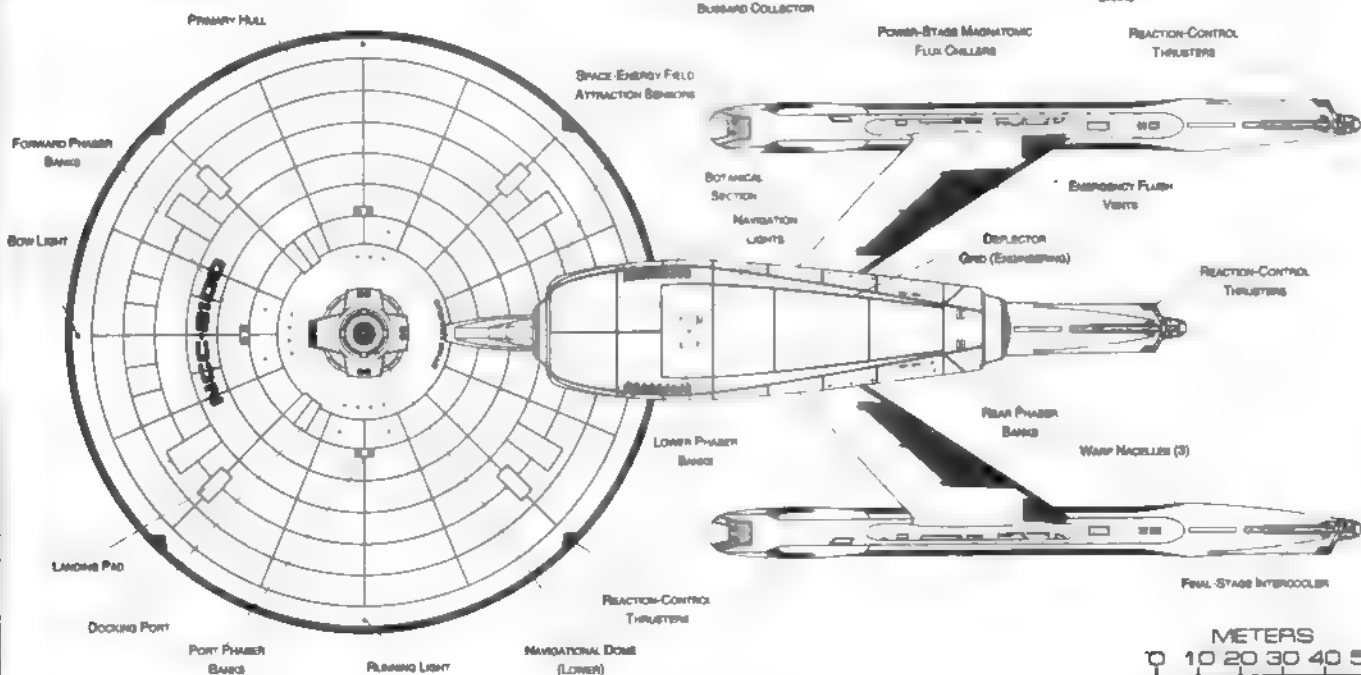
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:1800



# DREADNOUGHT

## Ship Names

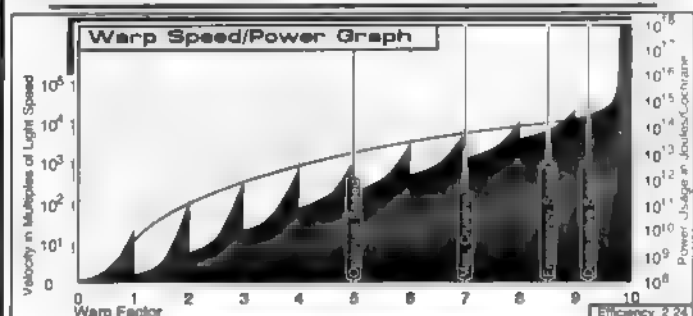
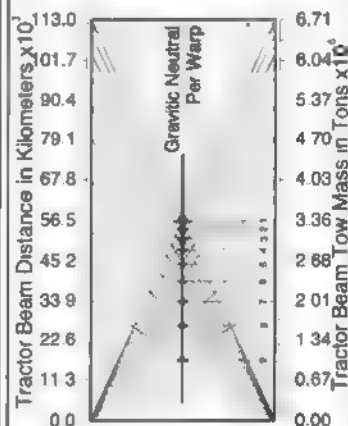
THE FOLLOWING SHIPS OF THE MK-Xa CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2288.11

AFFILIATION -NCC-2108	KINSHIP -NCC-2132***	WIDGREN -NCC-2141***
AFFINITY -NCC-2124***	KONKORDIUM -NCC-2106	
ALLIANCE -NCC-2113	NICHTER -NCC-2102	
ALLMAN -NCC-2146***	ORGANIZATION -NCC-2111**	
ARCHANGELESE -NCC-2105	PACT -NCC-2121***	
ARRANGEMENT -NCC-2138***	PARTICIPATION -NCC-2125***	
ASSOCIATION -NCC-2118	PRATICO -NCC-2149***	
COALITION -NCC-2127***	PROVINCE -NCC-2137***	
COMPACTAT -NCC-2103	REALM -NCC-2130***	
CONCORDAT -NCC-2109	REGION -NCC-2144***	
CONCURRENCE -NCC-2142***	ROADMAN -NCC-2147***	
CONFEDERATION -NCC-2143***	SECTOR -NCC-2131***	
CONSORTIUM -NCC-2119	SNITGER -NCC-2114	
CORPORATION -NCC-2104	STAR EMPIRE -NCC-2116	
DIRECTORATE -NCC-2110	STAR LEAGUE -NCC-2101*	
DISTRICT -NCC-2145***	STAR SYSTEM -NCC-2107	
DOMAIN -NCC-2129***	STAR UNION -NCC-2112	
DOMINION -NCC-2115	SYSTEM -NCC-2139***	
ENTENTE -NCC-2120***	TERRITORY -NCC-2122***	
FEDERATION -NCC-2100	TRUSTEE SHIP -NCC-2117	
FORMALITY -NCC-2123***	UNIFICATION -NCC-2140***	
FOUNDATION -NCC-2136***	UNION -NCC-2126***	
GATLIN -NCC-2148***	UNITY -NCC-2133***	
IMPLICATION -NCC-2128***	WARD -NCC-2134***	
INSTITUTION -NCC-2135***		

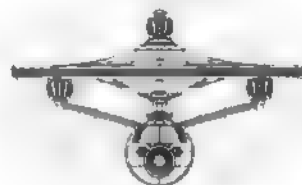
\*\*\*PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



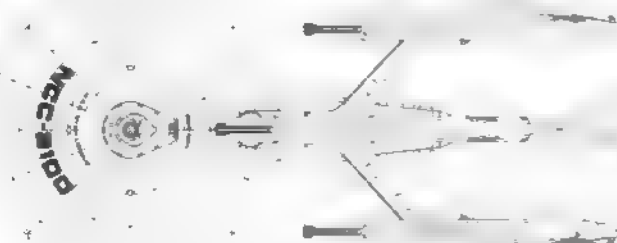
Field Length 584.84m  
Field Width 183.35m  
Field Height 108.59m



Front Warp Field Profile  
Cross Section Area 20995.13 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 48890.97 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 78886.30 m<sup>2</sup>

# HEAVY CRUISER

## General Information



**Specific Role:** The Heavy Cruiser is the most versatile and widely recognized starship in the Federation. Equipped with both extensive laboratories and weapon systems, the vessel can easily conduct both research and military operations. The cruiser is often used as a research platform in areas that are too dangerous for dedicated research vessels. The Heavy Cruiser has proven to be the most successful starship design in Starfleet's inventory, exhibiting an ideal blend of speed, power and performance. Very often, due to the versatility of the vessel, it is called upon for diplomatic duties.

**Physical Description:** The (PH147/C-C3) primary hull is equipped with the (BS10/C-H2) bridge. On the lower part of the primary hull is the (SM49/12H) main sensor array and (DN4/10H) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Towards the rear of the secondary hull above the hangar deck are two (BP2/30-2C) phaser banks. On the underside of the secondary hull are four additional (BP2/30-2C) phaser banks. To the rear of the primary hull are (IRF35E/4-IR) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels's warp fields are generated by two (SW52/1-5RI) warp nacelles attached to the (SH117/C-H2) secondary hull by (DU/35-6F) support pylons. The primary and secondary hulls are joined by the (DU/50-48C) connecting dorsal. Located to the front of the secondary hull is the (DN2/D-9) navigational deflector used to assist the shields in deflecting oncoming projectiles. To the rear of the secondary hull is a medium hangar deck. Running through the dorsal is the (M25/14-2E) intermix chamber. The (AM8/36-4F) matter/antimatter storage tanks are located in the forward-lower secondary hull in line with the dorsal spine for emergency jettisoning. Nestled between the dorsal and the secondary hull is a forward facing (PB2/25-10G) photon torpedo bay. In the event of an emergency the primary and secondary hulls can separate; each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

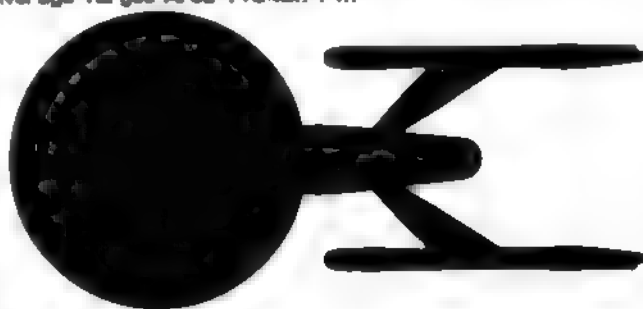
For additional detail refer to Datasheet MV-2

### Class Emblem



### Ship Silhouettes

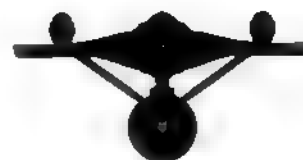
Total Target Area 34831.13 m<sup>2</sup>  
Average Target Area 11643.71 m<sup>2</sup>



Top Silhouette  
Area 22711.42 m<sup>2</sup>



Port Silhouette  
Area 8217.55 m<sup>2</sup>

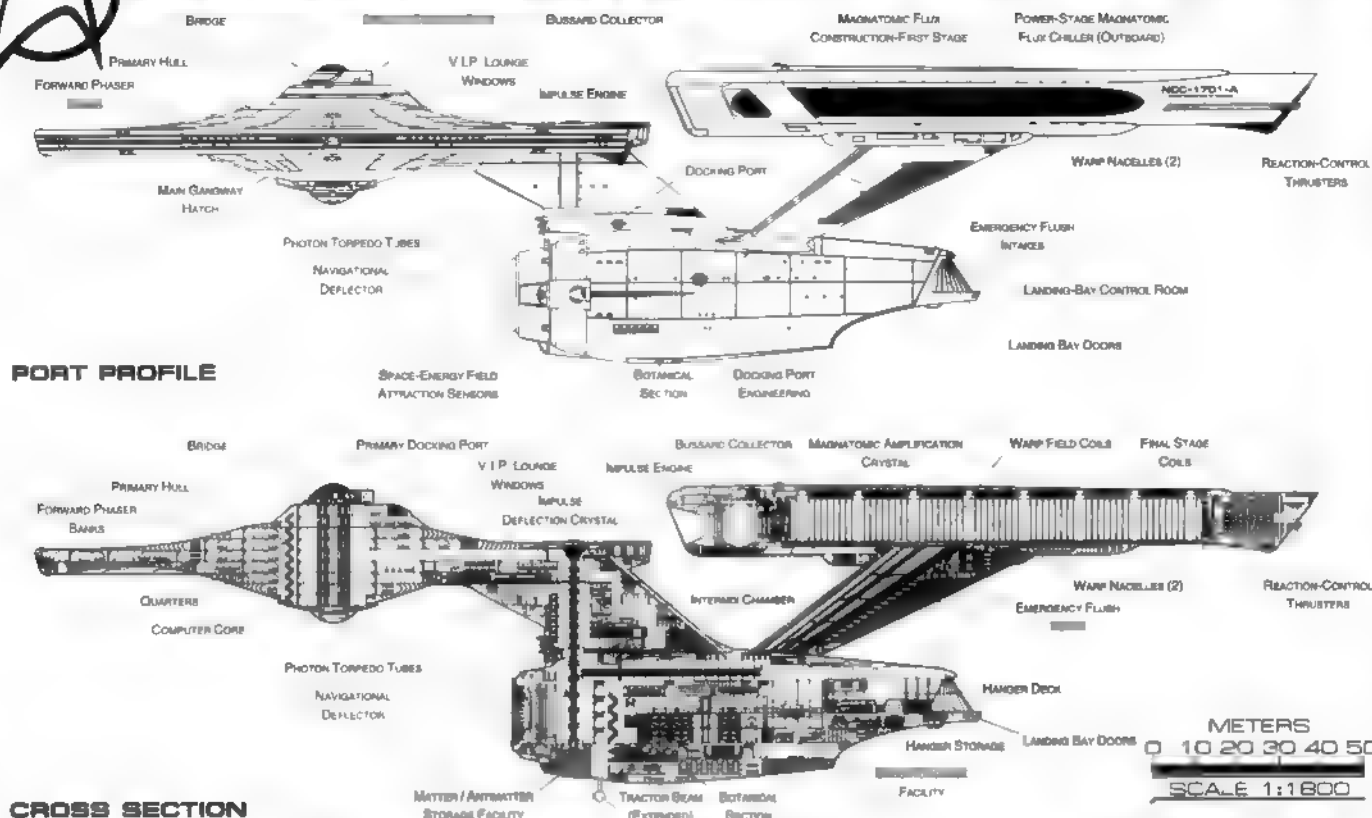


Front Silhouette  
Area 4002.16 m<sup>2</sup>



# HEAVY CRUISER

ENTERPRISE CLASS



## Statistics

**Classification:** Heavy Cruiser  
**Category:** Cruiser  
**Class:** Enterprise  
**Type:** Class 1  
**Model:** MK IXa  
**Naval Construction Contract:** 1700  
**Number Proposed:** 89  
**Number Constructed:** 50  
**Number in Service:** 49  
**Number Lost:** 1  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 304.8 m  
 Width: 141.72 m  
 Height: 71.31 m  
**Primary Hull Dimensions (Meters)**  
 Length: 146.31 m  
 Width: 141.72 m  
 Height: 32.94 m  
**Secondary Hull Dimensions (Meters)**  
 Length: 121.23 m  
 Width: 32.92 m  
 Height: 31.59 m  
**Warp Hull Dimensions (Meters)**  
 Length: 154.81 m  
 Width: 12.83 m  
 Height: 18.32 m  
**Displacement (Metric Tons)**  
 Light: 184381 mt  
 Standard: 197543 mt  
 Full Load: 220521 mt  
**Performance:**  
**Impulse Units:** Dual Unit (IRF35E/4-IR)  
**Impulse Engine Output:**  $7.8 \times 10^{13}$  W  
**Impulse Power Index:** 1.00  
**Max Cruising:** C  
**Acceleration Rate:**  
 0.00-0.25 Impulse: 0.2 sec.  
 0.25-0.50 Impulse: 0.3 sec.  
 0.50-0.75 Impulse: 0.4 sec.  
 0.75-Full Impulse: 0.5 sec.  
**Warp Units:** 2 Nacelle Units (SW52/1-5FT)  
**Warp Engine Output:**  $1.2 \times 10^5$  W  
**Warp Power Index:** 1.00

**Optimum Speed:** 4  
**Max. Safe Cruising:** 6  
**Emergency Speed:** 8  
**Max. Speed:** 9.1  
**Destructive Speed:** 9.25  
**Acceleration Power:** 3  
**Acceleration Times:**  
 Warp 1 - Warp 2: 0.2 sec.  
 Warp 2 - Warp 3: 0.32 sec.  
 Warp 3 - Warp 4: 1.21 sec.  
 Warp 4 - Warp 5: 1.74 sec.  
 Warp 5 - Warp 6: 1.98 sec.  
 Warp 6 - Warp 7: 2.01 sec.  
 Warp 7 - Warp 8: 2.58 sec.  
 Warp 8 - Warp 9: 3.86 sec.  
 Warp 9 - Warp 9.5: 8.2 sec.  
 Warp 9.5 - Warp 9.75: 9.5 sec.  
 Warp 9.75 - Warp 9.9: 19.7 sec.  
**Duration (Years)**  
 Standard: 4 Years  
 Maximum: 16 Years  
**Std. Ships Complement:** 434  
**Officers:** 72  
**Crew (Ensign Grade):** 350  
**Troops:** 12  
**Passengers:** 50  
**Emergency condition:** + 600  
**Medical Facilities:**  
 Doctors: 4  
 Medical Staff: 9  
 Operating Rooms: 3  
 Beds: 21  
**Laboratories:** 6  
**Transporters Total:** 13  
 1 Person: 0  
 2 Person: 0  
 6 Person: 4  
 12 Person: 0  
 22 Person: 4  
 Small Cargo: 2  
 Medium Cargo: 2  
 Large Cargo: 0  
 Super Cargo: 0

**Brigs:** 12  
**Replicators:** 15  
**Tractor Beams:** 1  
 Tow Capacity:  $3.5 \times 10^4$  mt  
 Max Range:  $1 \times 10^5$  km  
**Cargo Specifications:**  
 Standard Cargo Units: 450  
 Cargo Capacity: 22500 mt  
**Shuttlecraft Specifications:**  
 Docking Ports: 5  
 Shuttlecraft Bays Total: 1  
 Small Bay: 0  
 Medium Bay: 1  
 Large Bay: 0  
 Super Bay: 0  
 Shuttlecraft Standard: 24  
 Work Bess: 2  
 Travel Pods: 2  
 Aquatic Shuttle: 1  
 Light Shuttle: 1  
 Standard Shuttle: 1  
 Heavy Shuttle: 1  
 Cargo Shuttle: 1  
 Assault Shuttle: 1  
 Killer Bess: 3  
 Light Fighter: 4  
 Fighter: 4  
 Heavy Fighter: 3  
 Lifboats: 45  
 TurboLift (8 person): 25  
 Lifboat (10 person): 14  
 Lifboat (20 person): 6  
 Lifboat (30 person): 0  
**Cloaking Devices:** 0  
**Sensor Index Values:**  
 Planetary Survey: 1.00  
 Stellar Survey: 1.00  
 Short Range: 1.00  
 Long Range: 1.00  
 Navigation: 1.00  
 Special: 1.00  
**Computers:** 2  
 Type: Daystrom Duetronic 1-IIIb  
 Type: Daystrom Duetronic 1-IIIa

**ECM Index:** 1.00  
**Shield Rating:**  
 Shield Index: 0.50  
 Holdoff Power:  $1.82 \times 10^{12}$  W  
 Refresh Rate:  $4.6 \times 10^{11}$  W  
 Breakdown Rate:  $5.53 \times 10^{11}$  W  
**Shield Dimensions (Meters)**  
 Length: 457.2 m  
 Width: 212.6 m  
 Height: 107 m  
**Weapons:**  
**Phaser Power Index:** 1.00  
**Photon Power Index:** 1.00  
**Vessel Power Index:** 1.00  
**Weapon Placement:**  
**Beam (Phasers) Total:** 9 banks 2 each  
 Output:  $5 \times 10^{11}$  W  $2.5 \times 10^{11}$  W  
 Range:  $2.5 \times 10^6$  km  
 Rate of Fire: 30 ppm/Cont  
**Forward Banks:** 2  
**Rear Banks:** 1  
**Port Banks:** 2  
**Starboard Banks:** 2  
**Upper Banks:** 0  
**Lower Banks:** 2  
**Beam (MegaPhasers) Total:** 0  
 Output: N/A  
 Range: N/A  
 Rate of Fire: N/A  
**Forward/Rear Banks:** 0  
**Port/Starboard Banks:** 0  
**Upper/Lower Banks:** 0  
**Torpedoes (Photon) Total:** 2 Bays  
 Stock: 25  
 Range:  $2 \times 10^6$  km  
 Output: 10-50 MT  
 Rate of Fire: 10 spm  
**Forward Bay:** 1  
**Rear Bay:** 0  
**Port Bay:** 0  
**Starboard Bay:** 0  
**Upper Bay:** 0  
**Lower Bay:** 0

FEDERATION VESSEL

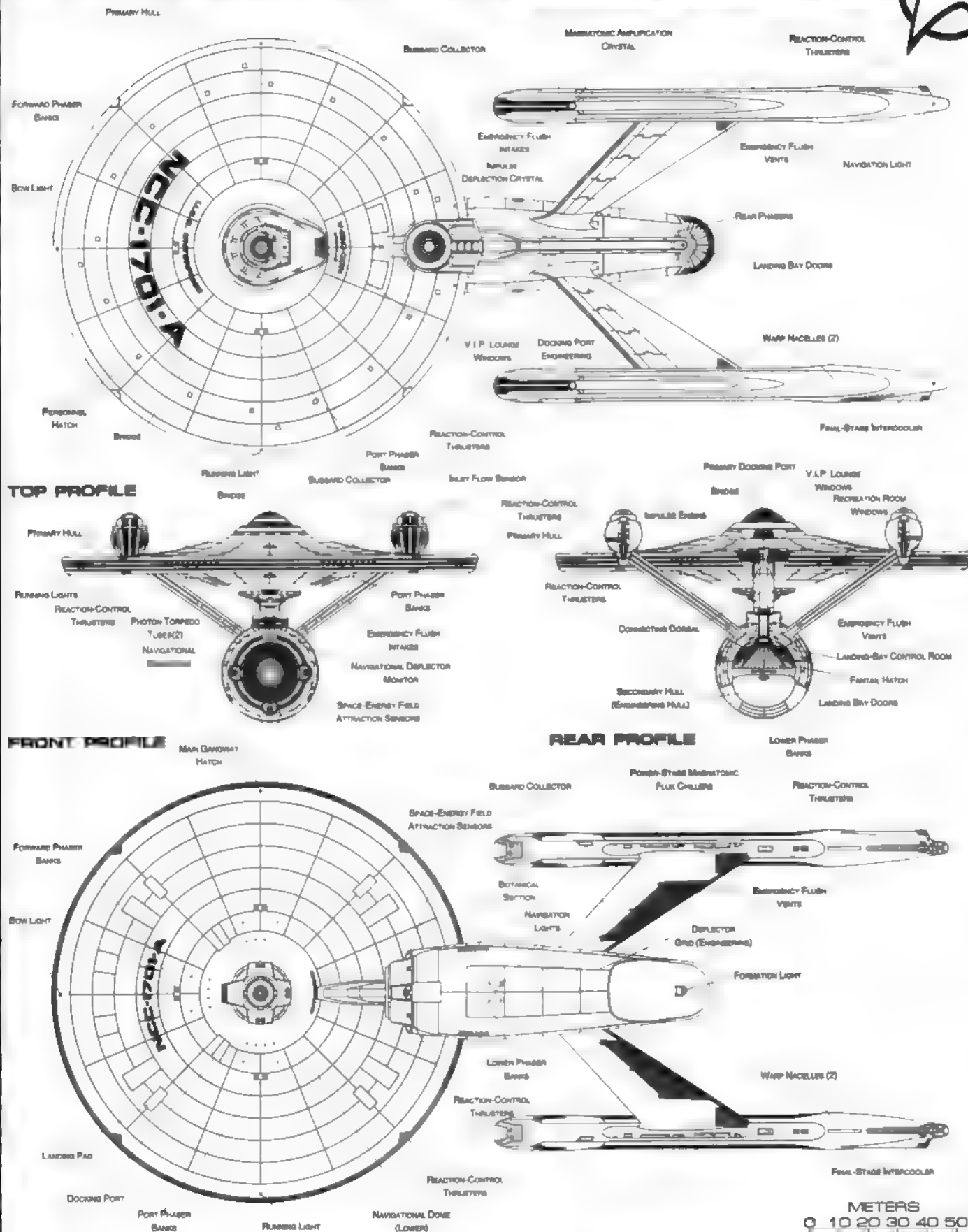


# HEAVY CRUISER



ENTERPRISE CLASS

FEDERATION VESSEL



METERS  
0 10 20 30 40 50  
SCALE 1:1800



# HEAVY CRUISER

## Ship Names

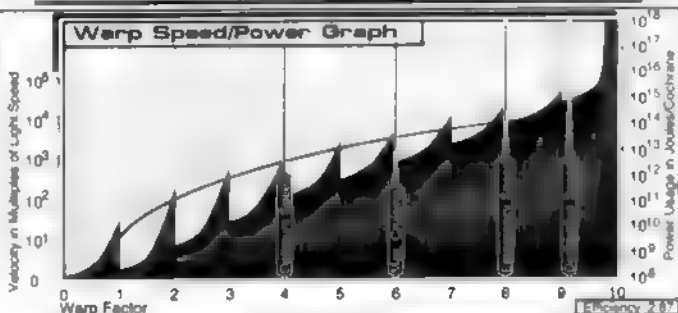
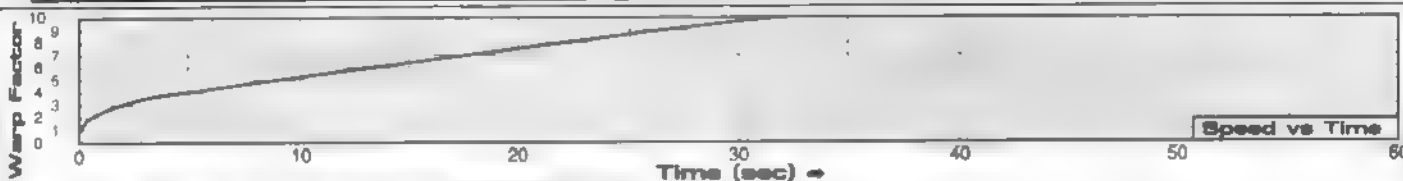
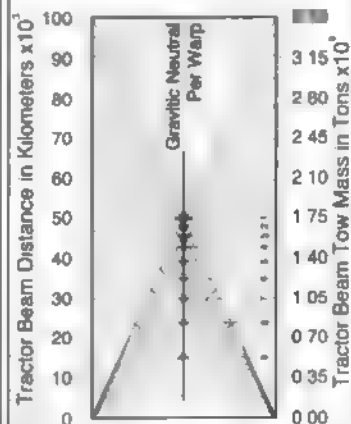
THE FOLLOWING SHIPS OF THE MK-IX<sup>a</sup> CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.2

ACHERNAR -NCC-1732	GALINA -NCC-1764***	MONITOR -NCC-1713	TAJARHI -NCC-1783***
ALFERAZ -NCC-1781***	GHAR -NCC-1786***	NDELF -NCC-1758***	TALI -NCC-1751
ALFR -NCC-1741	GHONDR -NCC-1749	OBLIK -NCC-1772***	TEMIR -NCC-1783***
ANDROCJS -NCC-1738	HALL -NCC-1782***	OOMARU -NCC-1761***	THELONII -NCC-1742
ANNOBON -NCC-1752***	HOOD -NCC-1707	PAEGAN -NCC-1755***	THOLUS -NCC-1747
ARI -NCC-1723	HORNET -NCC-1714	PARI -NCC-1787***	TORI -NCC-1725
ASTRAD -NCC-1739	HOROK -NCC-1748	PELIONE -NCC-1750	TULAN -NCC-1777***
BONHOMME RICHARD -NCC-1712	INTREPID -NCC-1708	PHARDOS -NCC-1757***	VALIANT -NCC-1709
CASPAN -NCC-1753***	JASSAN -NCC-1754***	PILAR -NCC-1746	VEGA -NCC-1730
CONSTELLATION -NCC-1728***	JUPITER -NCC-1734	POTEMPKIN -NCC-1711	WASP -NCC-1721
INDEPENDENCE -NCC-1700	KAP SALU -NCC-1787***	PROCYON -NCC-1756***	XANTHII -NCC-1743
DEFIANCE -NCC-1717	KARS -NCC-1789***	PROXIMA -NCC-1737	YAAN -NCC-1782***
EAGLE -NCC-1719	KAS MAR -NCC-1784***	QUALAT -NCC-1778***	YORKTOWN -NCC-1704
EKINUS -NCC-1771***	KESTRAL -NCC-1766***	QUINDAR -NCC-1736	ZAAHM -NCC-1780***
EL DORADO -NCC-1722	KETON -NCC-1768***	QUIZAN -NCC-1775***	ZA-FARAN -NCC-1760***
ENDEAVOR -NCC-1716	KONGO -NCC-1710	REPUBLIC -NCC-1729	ZINDAR -NCC-1759
ENTERPRISE -NCC-1701**	KRIEGER -NCC-1726	RIGIL KENTAURUS -NCC-1735	
ENTERPRISE (II) -NCC-1701A*	LAFAYETTE -NCC-1720	SALAYNA -NCC-1774***	
ESABL -NCC-1779***	LEXINGTON -NCC-1703	SAMAARA -NCC-1765***	
ESKUIS -NCC-1789***	MAZDA -NCC-1778***	SARATOGA -NCC-1724***	
ESSEX -NCC-1727	MENGEN -NCC-1773***	SHAR -NCC-1745	
EXCALBUR -NCC-1705	MERRIMAC -NCC-1715	SINULI -NCC-1770***	
EXCELSIOR -NCC-1718**	MIRAZH -NCC-1788***	SRIUS -NCC-1744	
EXETER -NCC-1706	MONDOLOY -NCC-1740	SOL -NCC-1733	
FARRAGUT -NCC-1702	MONGO -NCC-1785***	SPICA -NCC-1731	

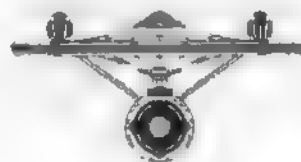
\*CLASS SHIP. \*\*LOST IN THE LINE OF DUTY. \*\*\*PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



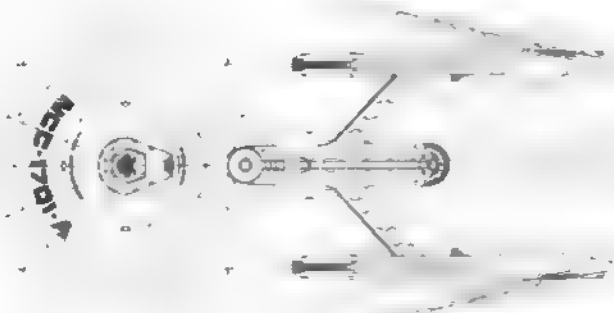
Field Length 585.79m  
Field Width 207.69m  
Field Height 100.98m



Front Warp Field Profile  
Cross Section Area 14632.46 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 39295.22 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 91633.14 m<sup>2</sup>

## WARP FIELDS

SRMA-1 05:03:06:04

STARFLEET REFERENCE MANUAL

ENTERPRISE CLASS

FEDERATION VESSEL

# THROUGH DECK CRUISER



## General Information

**Specific Role:** The Through Deck Cruiser is a highly maneuverable, frontline, fighter/shuttle delivery system based on the Enterprise Class Heavy Cruiser. The vessel can perform on par with a Heavy Cruiser and deliver small craft directly into the action on the frontline. The through deck provides facilities for rapid recovery and turn-around of small craft during combat missions. These vessels are used to investigate worlds for formal first contact follow-up missions.

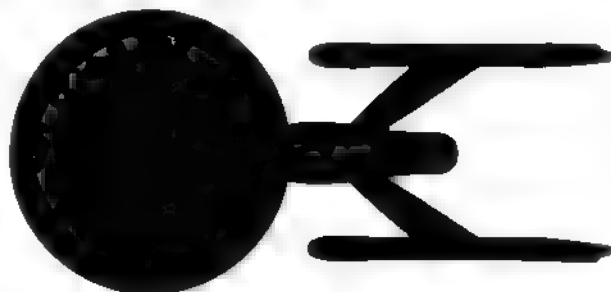
**Physical Description:** The (PH147/SC-T3) primary hull is equipped with the (BS9/SC-R2) bridge which incorporates a larger tracking station as well as additional light craft support systems. On the lower part of the primary hull is the (SM49/7E) main sensor array and (DN4/9B) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Towards the rear of the secondary hull above the hangar deck are two (BP2/30-2C) phaser banks. On the underside of the secondary hull are four additional (BP2/30-2C) phaser banks. To the rear of the primary hull are (IRF35E/4-AW) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessel's warp fields are generated by two (SW52/1-5NV) warp nacelles attached to the (SH131/SC-6) secondary hull by (DU/35-6G) support pylons. The primary and secondary hulls are joined by the (DU/5-48D) connecting dorsal. Located through the centerline of the secondary hull are the two connecting medium hangar decks. Running through the dorsal is the (MD25/14-2R) intermix chamber. Inside upper rear secondary hull, the (AM8/36-4C) matter/antimatter storage tanks are easily jettisoned in case of an emergency. At the base of the dorsal is a forward facing (PB2/25-10F) photon torpedo bay. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ship's complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

### Class Emblem



### Ship Silhouettes

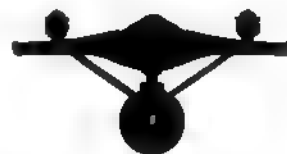
Total Target Area 38430.12 m<sup>2</sup>



Top Silhouette  
Area 25589.44 m<sup>2</sup>



Port Silhouette  
Area 2218.24 m<sup>2</sup>



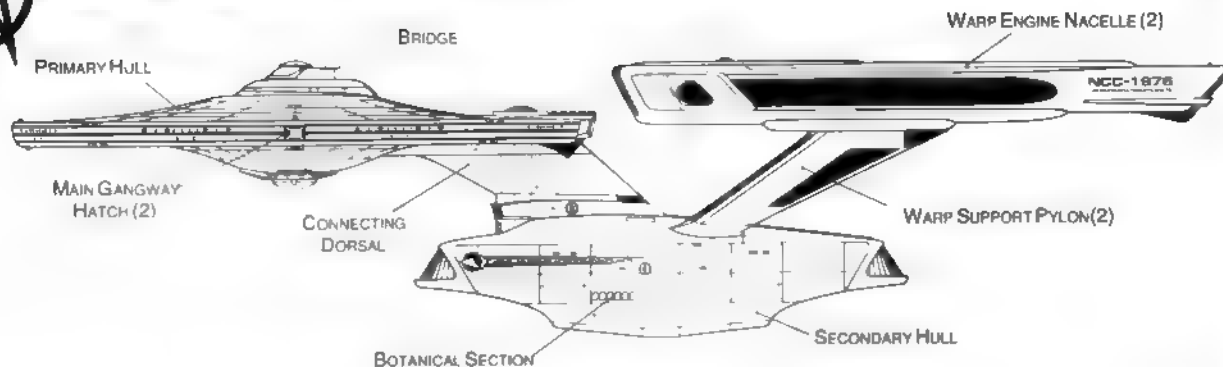
Front Silhouette  
Area 3622.44 m<sup>2</sup>



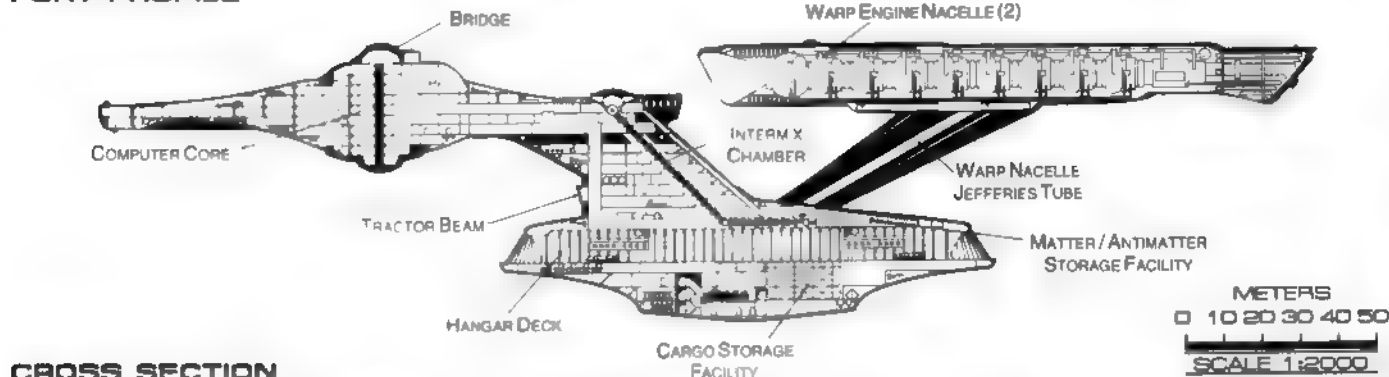
# THROUGH DECK CRUISER

ORISKANY CLASS

FEDERATION VESSEL



PORT PROFILE



CROSS SECTION

## Statistics

**Classification:** Through Deck Cruiser

**Category:** Carrier

**Class:** Oriskany

**Type:** Class 1

**Model:** MK XXII

**Naval Construction Contract:** 1900

**Number Proposed:** 35

**Number Constructed:** 35

**Number in Service:** 34

**Number Lost:** 1

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 304.80m

Width: 141.72m

Height: 70.47m

**Primary Hull Dimensions (Meters)**

Length: 146.31m

Width: 141.72m

Height: 32.94m

**Secondary Hull Dimensions (Meters)**

Length: 124.65m

Width: 31.21m

Height: 30.91m

**Warp Unit Dimensions (Meters)**

Length: 154.81m

Width: 12.63m

Height: 18.32m

**Displacement (Metric Tons)**

Light: 184.381mt

Standard: 197,543mt

Full Load: 220,521mt

**Performance:**

Impulse Units: Dual Unit (IRF35E/4-AW)

Impulse Engine Output:  $7.8 \times 10^{13}$  W

Impulse Power Index: 1.00

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.200 sec.

0.25-0.50 Impulse: 0.300 sec.

0.50-0.75 Impulse: 0.400 sec.

0.75-Full Impulse: 0.500 sec.

Warp Units: 2 Nacelle Units (SW52/1-5NV)

Warp Engine Output:  $1.20 \times 10^{15}$  W

Warp Power Index: 1.000

**Optimum Speed:** Warp 4

**Max. Safe Cruising:** Warp 6

**Emergency Speed:** Warp 8

**Max Speed:** Warp 9.1

**Destructive Speed:** Warp 9.25

**Acceleration Power:** 3.0

**Acceleration Times**

Warp 1 - Warp 2: 0.200 sec

Warp 2 - Warp 3: 0.320 sec

Warp 3 - Warp 4: 1.210 sec

Warp 4 - Warp 5: 1.740 sec

Warp 5 - Warp 6: 1.860 sec

Warp 6 - Warp 7: 2.010 sec

Warp 7 - Warp 8: 2.580 sec.

Warp 8 - Warp 9: 3.690 sec.

Warp 9 - Warp 9.5: 8.200 sec

Warp 9.5 - Warp 9.75: 9.500 sec

Warp 9.75 - Warp 9.9: 19.700 sec

**Duration (Years)**

Standard: 5 Years

Maximum: 20 Years

**Std. Ship Complement:** 358

Officers: 58

Crew (Ensign Grade): 276

Troops: 26

Passengers: 50

Emergency condition: +486

**Medical Facilities:**

Doctors: 4

Nurses: 21

Operating Rooms: 3

Beds: 21

**Laboratories:** 8

**Transporters Total:** 9

1 Person: 0

2 Person: 0

6 Person: 3

12 Person: 0

22 Person: 3

Small Cargo: 2

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

**Brigs:** 19

**Replicators:** 15

**Tractor Beams:** 1

Tow Capacity:  $5.25 \times 10^6$  mt

Max Range:  $1.15 \times 10^5$  km

**Cargo Specifications:**

Standard Cargo Units: 376

Cargo Capacity: 18,800mt

**Shuttlecraft Specifications:**

Docking Ports: 3

Shuttlecraft Bays Total: 2

Small Bay: 0

Medium Bay: 2

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 44

Work Bees: 3

Travel Pods: 2

Aquatic Shuttle: 2

Light Shuttle: 2

Standard Shuttle: 8

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 5

Killer Bees: 4

Fighter: 8

Heavy Fighter: 6

Lifeboats: 32

TurboLift (8 person): 16

Lifeboat (10 person): 11

Lifeboat (20 person): 4

Lifeboat (30 person): 1

**Cloaking Devices:** 0

**Sensor Index Values:**

Planetary Survey: 0.9670

Stellar Survey: 0.8608

Short Range: 0.934

Long Range: 0.8754

Navigation: 1.1198

Special: 1.9397

**Computers:** 2

Type: Daystrom Duotronic III: x

Type: Daystrom Duotronic II: b

**ECM Index:** 1.00

**Shield Rating:**

Shield Index: 0.98

Holdoff Power:  $3.19 \times 10^{12}$  W

Refresh Rate:  $9.07 \times 10^{11}$  W

Breakdown Rate:  $1.09 \times 10^{12}$  W

Shield Dimensions (Meters)

Length: 387.22m

Width: 177.01m

Height: 88.98m

**Weapons:**

Phaser Power Index: 0.78

Photon Power Index: 0.00

Vessel Power Index: 0.39

**Weapon Placement:**

Beam (Phasers) Total: 7 banks 2 each

Output:  $5.0 \times 10^{11}$  W /  $2.5 \times 10^{11}$  W

Range:  $2.5 \times 10^5$  km

Rate of Fire: 30 ppm / Cont

Forward Banks: 2

Rear Banks: 1

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: N/A

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

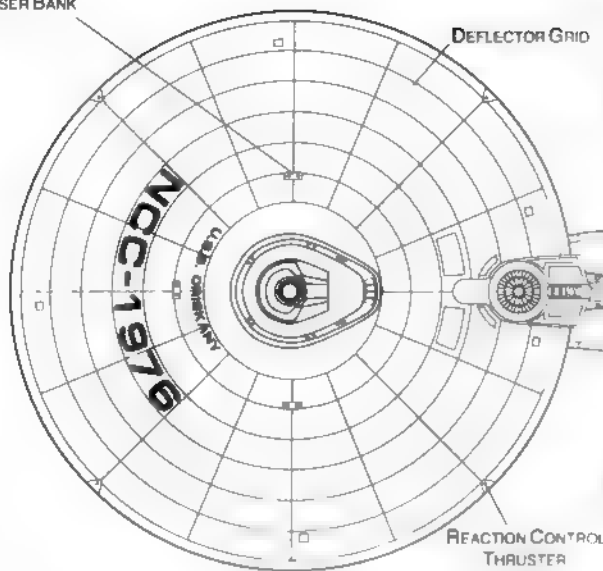


# THROUGH DECK CRUISER

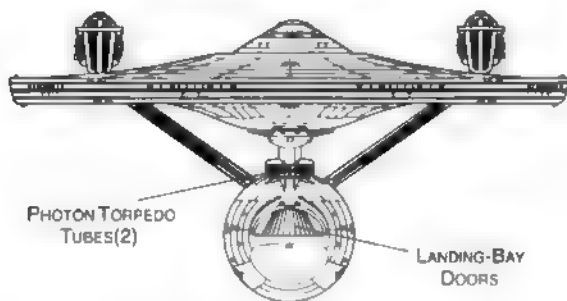
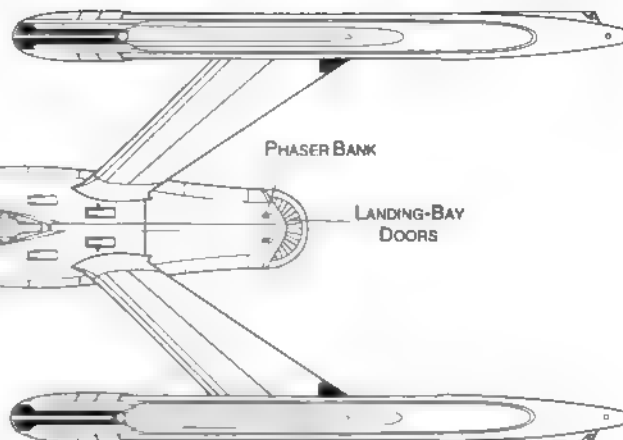


PHASER BANK

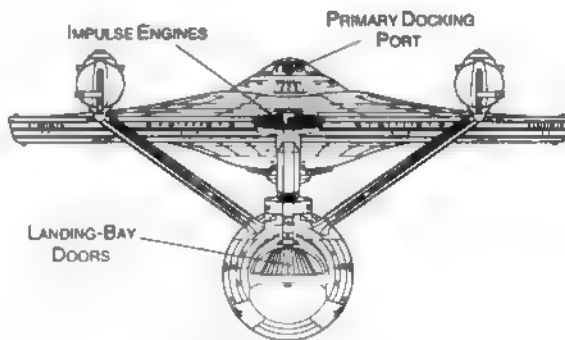
DEFLECTOR GRID



TOP PROFILE



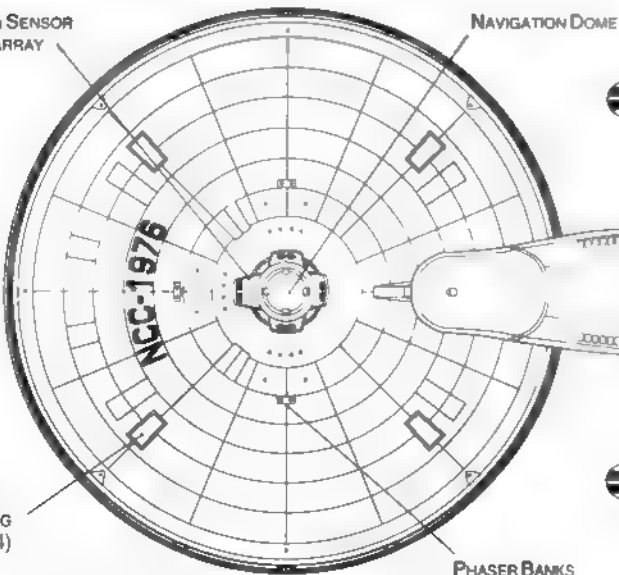
FRONT PROFILE



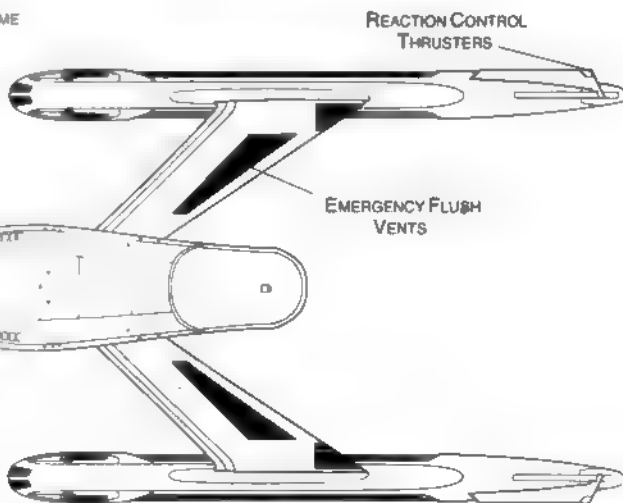
REAR PROFILE

MAIN SENSOR  
ARRAY

NAVIGATION DOME



BOTTOM PROFILE



METERS  
0 10 20 30  
SCALE



# THROUGH DECK CRUISER

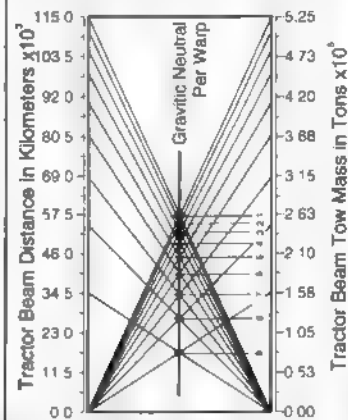
## Ship Names

THE FOLLOWING SHIPS OF THE MK-XXII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2269.11

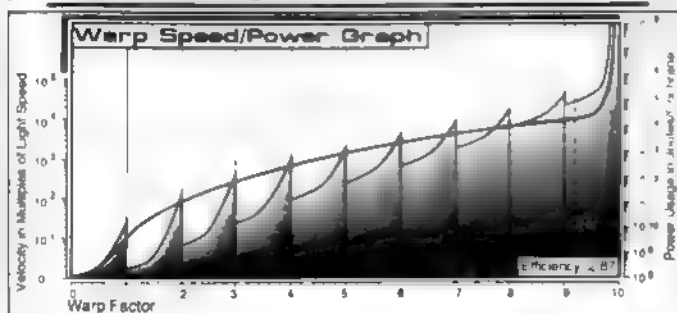
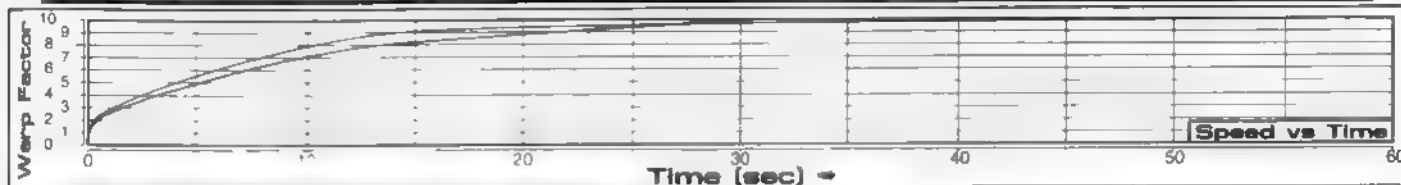
BENNINGTON *NCC 1978	RUSSELL *NCC 1974
CARLAT *NCC 1971	SCETO *NCC 1955
CHELSEA *NCC 1969	SMART *NCC 1967
CLEMENCEAU *NCC 1977	SOLTER *NCC 1973
CORONADO *NCC 1975	TARNA *NCC 1983
DAUPHINAIS *NCC 1952	JEVLER *NCC 1984
DEVONSHIRE *NCC 1979	WINDHOR *NCC 1956
DRAGO *NCC 1970	YONAS *NCC 1965
EBREW *NCC 1981	YURKEN *NCC 1959
ESCRIBA *NCC 1960	ZABELL *NCC 1958
FORBUS *NCC 1962	
KATARINA *NCC 1953	
KIEV *NCC 1988	
KICAID *NCC 1964	
KINNEBREW *NCC 1951	
KRIE *NCC 1972	
LABRYNTH *NCC 1968	
LAWTON *NCC 1961	
LECHNER *NCC 1963	
MUELLER *NCC 1954	
ORISKANY *NCC 1976	
PHINAIS *NCC 1982	
PRUITT *NCC 1950	
QUINTEN *NCC 1957	
RTHMIRE *NCC 1966	

## Tractor Beam Specifications

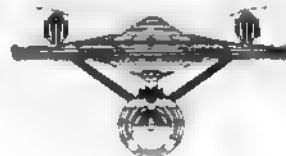
Primary Tractor Beam Load Calculator



ORISKANY CLASS



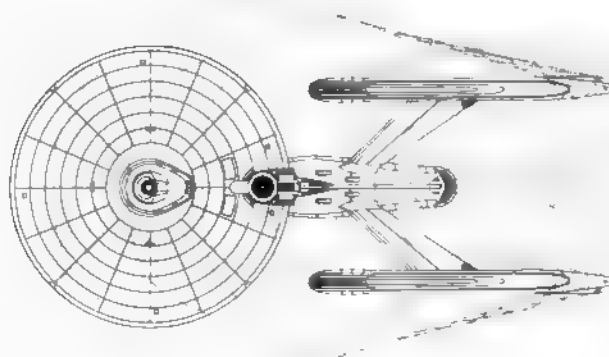
Field Length 528.7m  
Field Width 230.8m  
Field Height 112.2m



Front Warp Field Profile  
Cross Section Area 18142.00 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 48594.08 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 100920.00 m<sup>2</sup>

WARP FIELDS

FEDERATION VESSEL

## CRUISER



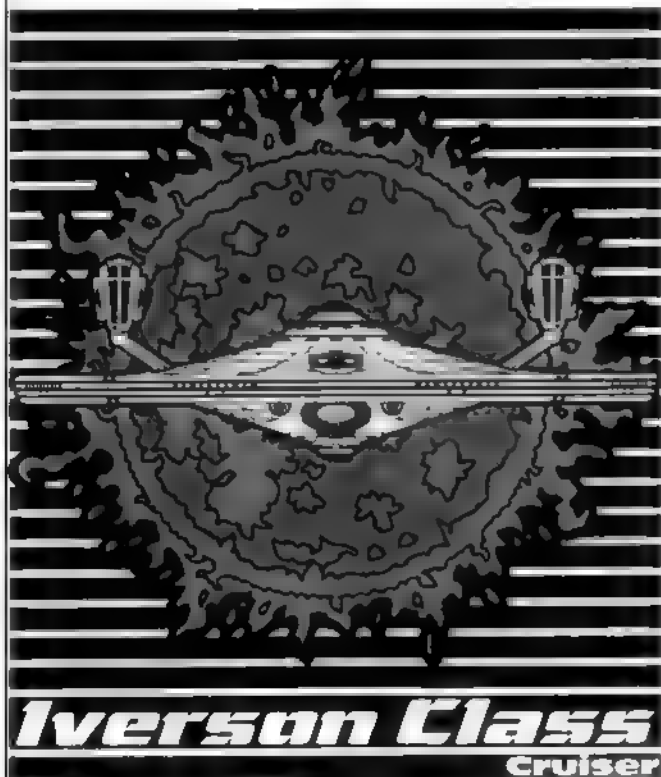
## General Information

**Specific Role:** The Cruiser is the backbone of the Federation for exploration and defense. It is equipped with moderate laboratories, standard weapons systems and defensive ECM equipment. It's primary mission is exploration, however it is also used for perimeter defense and diplomatic duty. The Cruiser is often used as a research facility in areas too dangerous for lightly armed dedicated research vessels.

**Physical Description:** The (PH162/V-F2) primary hull is equipped with the (BS9/V-U4) bridge. On the lower part of the primary hull is the (SM49/6J) main sensor array and (DN4/3A) navigational dome. Located on the top of the primary hull is the forward facing and (PB2/25-10W) torpedo bay. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2V) phaser banks. A single photon torpedo bay is mounted to the front of the primary hull. To the rear of the primary hull are (IRF35E/3-GB) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels's warp fields are generated by two (SW52/1-5AC) warp nacelles attached the rear of the primary hull by (DU/21-2F) support pylons. Located at the rear of the primary hull, just inside each pylon is the (M31/1-2D) intermix chamber. The (AM8/28-4Y) matter/antimatter storage tanks are located on the rear part of the hull, along the outer edge, for emergency jettisoning. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

For additional detail refer to Datasheet MV-16

## Class Emblem



## Ship Silhouettes

Total Target Area 20815.52 m<sup>2</sup>  
Average Target Area 6938.51 m<sup>2</sup>



Top Silhouette  
Area 21857.56 m<sup>2</sup>



Port Silhouette  
Area 4874.75 m<sup>2</sup>

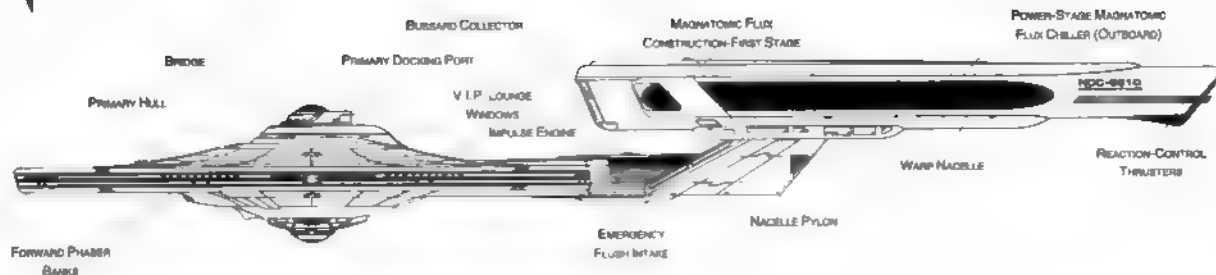


Front Silhouette  
Area 2083.22 m<sup>2</sup>

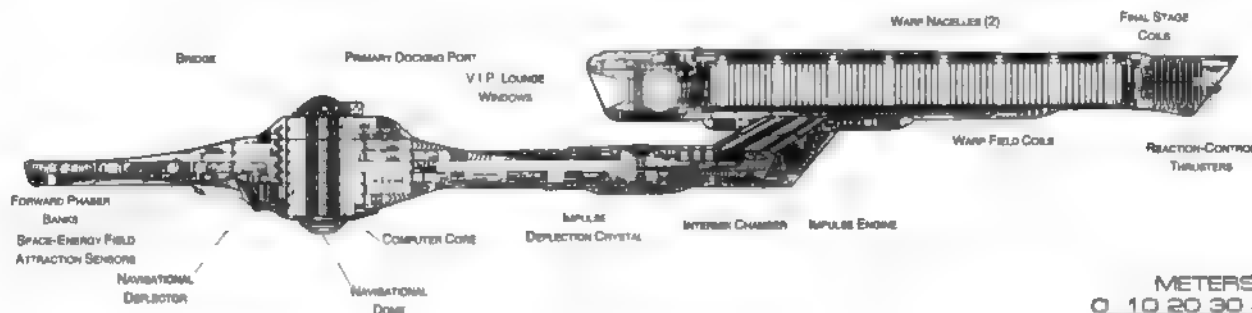


# CRUISER

IVERSON CLASS



PORT PROFILE



CROSS SECTION

METERS  
0 10 20 30 40 50  
SCALE 1:1800

## Statistics

**Classification:** Cruiser

**Category:** Cruiser

**Class:** Iverson

**Type:** Class 1

**Model:** MK XLIIIa

**Naval Construction Contract:** 9610

**Number Proposed:** 46

**Number Constructed:** 42

**Number in Service:** 42

**Number Lost:** 0

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 288.36 m

Width: 141.7 m

Height: 43.91 m

**Primary Hull Dimensions (Meters)**

Length: 148.31 m

Width: 141.72 m

Height: 32.94 m

**Secondary Hull Dimensions (Meters)**

Length: N/A

Width: N/A

Height: N/A

**Warp Unit Dimensions (Meters)**

Length: 154.81 m

Width: 12.63 m

Height: 17.02 m

**Displacement (Metric Tons)**

Light: 120782 mt

Standard: 129404 mt

Full Load: 144458 mt

**Performance:**

**Impulse Units:** Dual Unit (IRF35E/3-G8)

**Impulse Engine Output:**  $7.8 \times 10^{13}$  W

**Impulse Power Index:** 1.53

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.131 sec.

0.25-0.50 Impulse: 0.197 sec.

0.50-0.75 Impulse: 0.262 sec.

0.75-Full Impulse: 0.328 sec.

**Warp Units:** 2 Nacelle Units (SW52/1-5AC)

**Warp Engine Output:**  $1.2 \times 10^{15}$  W

**Warp Power Index:** 1.53

**Optimum Speed:** 4

**Max. Safe Cruising:** 6

**Emergency Speed:** 8

**Max. Speed:** 9.1

**Destructive Speed:** 9.25

**Acceleration Power:** 3

**Acceleration Times:**

Warp 1 - Warp 2: 0.131 sec.

Warp 2 - Warp 3: 0.21 sec.

Warp 3 - Warp 4: 0.793 sec.

Warp 4 - Warp 5: 1.14 sec.

Warp 5 - Warp 6: 1.218 sec.

Warp 6 - Warp 7: 1.317 sec.

Warp 7 - Warp 8: 1.69 sec.

Warp 8 - Warp 9: 2.417 sec.

Warp 9 - Warp 9.5: 5.372 sec.

Warp 9.5 - Warp 9.75: 6.223 sec.

Warp 9.75 - Warp 9.9: 12.905 sec.

**Duration (Years)**

Maximum: 16 Years

**Maximum:** 16 Years

**Std. Ships Complement:** 347

Crew: 57

**Crew (Ensign Grade):** 280

Troops: 10

Passengers: 30

**Emergency condition:** + 466

**Medical Facilities:**

Doctors: 3

**Medical Staff:** 7

**Operating Rooms:** 2

Beds: 16

**Laboratories:** 4

**Transporters Total:** 8

1 Person: 0

2 Person: 0

3 Person: 3

12 Person: 0

22 Person: 3

Small Cargo: 1

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

**Wigs:** 8

**Replicators:** 10

**Traitor Beams:** 1

**Tow Capacity:**  $3.74 \times 10^8$  mt

**Max Range:**  $9 \times 10^4$  km

**Cargo Specifications:**

**Standard Cargo Units:** 162

**Cargo Capacity:** 9100 mt

**Shuttlecraft Specifications:**

**Docking Ports:** 1

**Shuttlecraft Bays Total:** 1

Small Bay: 1

Medium Bay: 0

Large Bay: 0

Super Bay: 0

**Shuttlecraft Standard:** 17

Work Bess: 1

Travel Pods: 1

**Aquatic Shuttle:** 1

**Light Shuttle:** 0

**Standard Shuttle:** 1

**Heavy Shuttle:** 1

**Cargo Shuttle:** 1

**Assault Shuttle:** 3

**Killer Bess:** 2

**Light Fighter:** 2

**Fighter:** 2

**Heavy Fighter:** 2

**Lifboats:** 33

**Turbolift (8 person):** 16

**Lifboat (10 person):** 12

**Lifboat (20 person):** 5

**Lifboat (30 person):** 0

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 0.95

**Stellar Survey:** 0.96

**Short Range:** 0.98

**Long Range:** 0.97

**Navigation:** 0.99

**Special:** 0.94

**Computers:** 2

**Type:** Daystrom Dautronic 1-III-g

**Type:** Daystrom Dautronic 1-III-p

**ECM Index:** 0.99

**Shield Rating:**

**Shield Index:** 1.15

**Holdoff Power:**  $2.44 \times 10^{12}$  W

**Refresh Rate:**  $6.93 \times 10^{11}$  W

**Breakdown Rate:**  $8.32 \times 10^{11}$  W

**Shield Dimensions (Meters)**

Length: 432.5 m

Width: 212.6 m

Height: 65.9 m

**Weapons:**

**Phaser Power Index:** 1.02

**Photon Power Index:** 1.53

**Vessel Power Index:** 1.27

**Weapon Placement:**

**Beam (Phasers) Total:** 8 banks 2 each

**Output:**  $5 \times 10^{11}$  W  $2.5 \times 10^{11}$  W

**Range:**  $2.5 \times 10^6$  km

**Rate of Fire:** 30 ppm/Com.

**Forward Banks:** 2

**Rear Banks:** 0

**Port Banks:** 2

**Starboard Banks:** 2

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** 2 Bays

**Stock:** 25

**Range:**  $2 \times 10^5$  km

**Output:** 10-50 MT

**Rate of Fire:** 10 ppm

**Forward Bay:** 1

**Rear Bay:** 0

**Port Bay:** 0

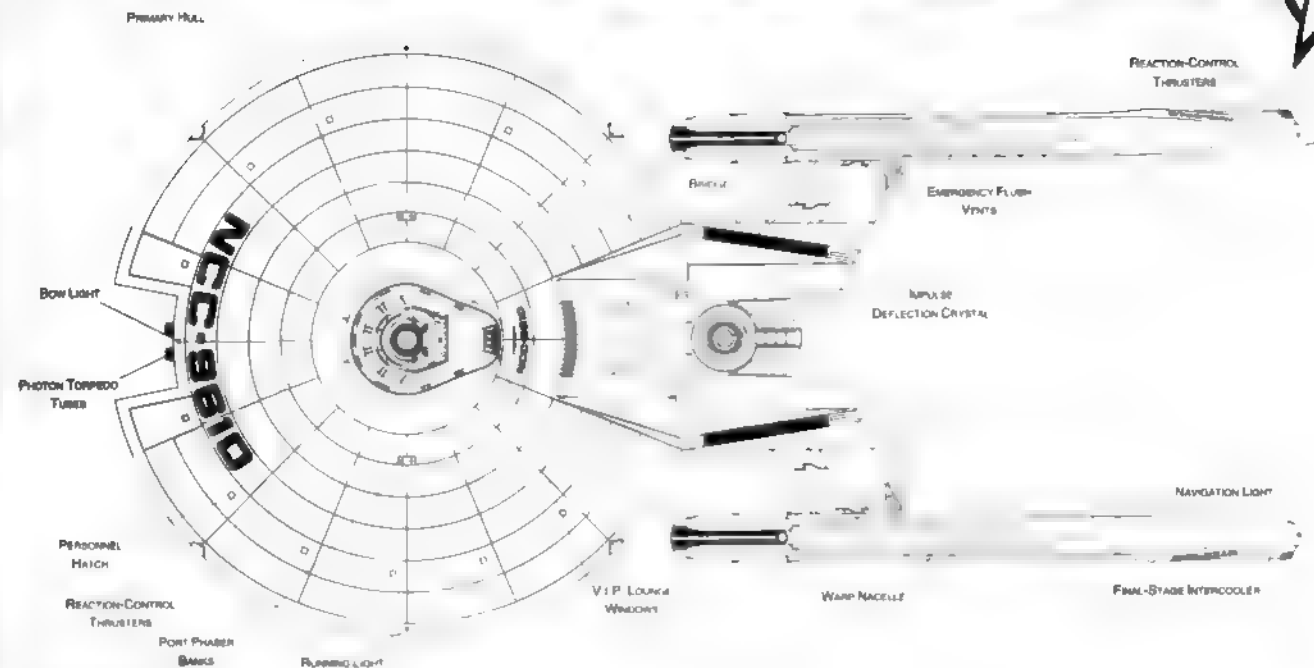
**Starboard Bay:** 0

**Upper Bay:** 0

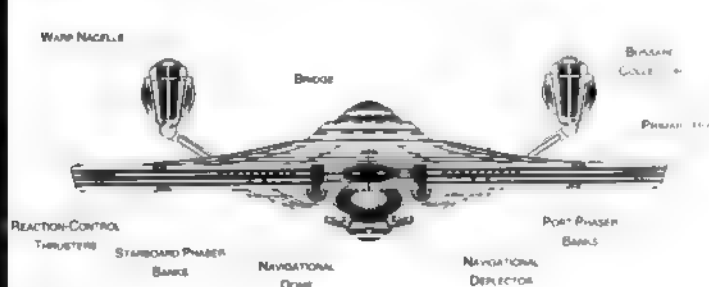
**Lower Bay:** 0

FEDERATION VESSEL

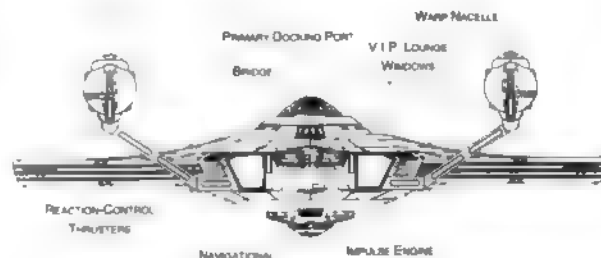
# CRUISER



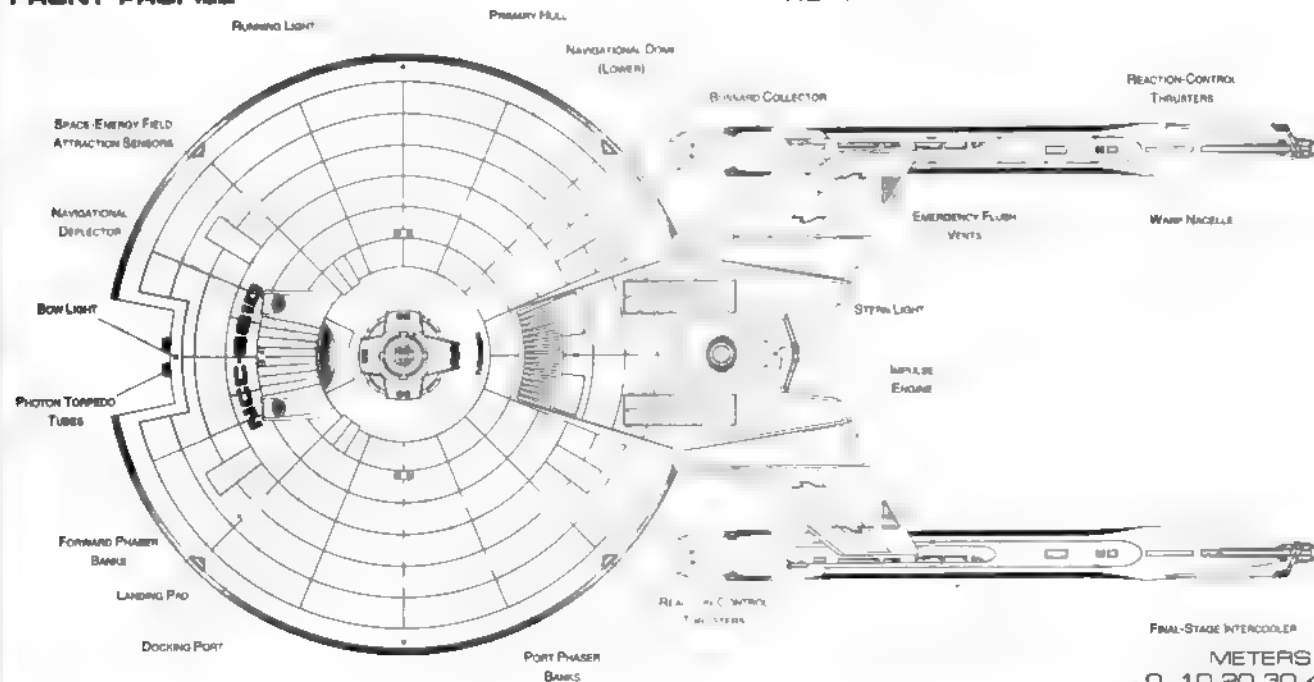
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE







# Ship Names

THE FOLLOWING SHIPS OF THE MK-XLIII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2288.10

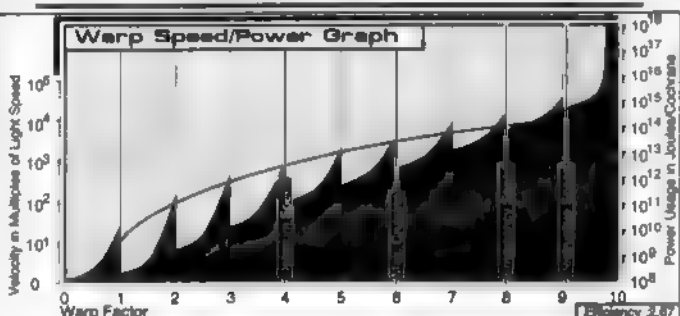
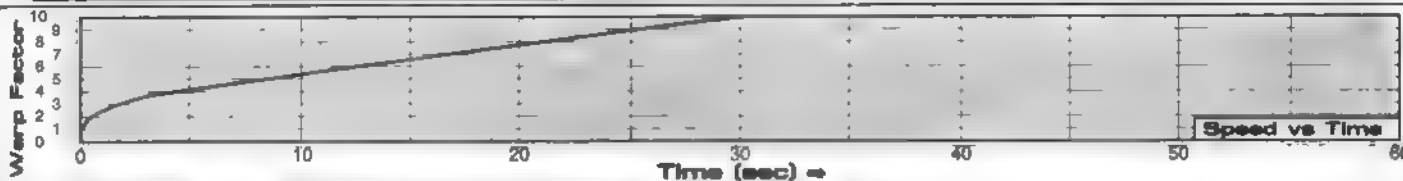
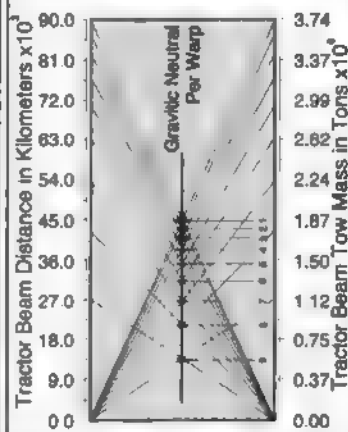
AGORA •NCC-9621	LORVELA •NCC-9642 ***
AMUNDSEN •NCC-9639	L'UVAN •NCC-9643 ***
BAIKONUR •NCC-9633	MEDARA •NCC-9630
BOLKINUA •NCC-9624	NEW BERLIN •NCC-9604
BOLRABI •NCC-9623	NEW GLASGOW •NCC-9619
BOLSETU •NCC-9648 ***	NEW JALEYL •NCC-9645 ***
CALADIA •NCC-9614	NOVA ARES •NCC-9629
CESTUS •NCC-9617	OREAS •NCC-9641
CHI-REE •NCC-9647 ***	PAKIL NOSA •NCC-9636
CHRISTOP •NCC-9608	PARADISE •NCC-9615
DALARIA •NCC-9618	POLAR •NCC-9607
DIRA •NCC-9635	SANDAPAM •NCC-9627
EKEOS •NCC-9632	SATHURA •NCC-9600
EKOSIS •NCC-9603	SHANAIAHR •NCC-9640
ERANAS •NCC-9638	SHIKAHR •NCC-9631
GHUTHA •NCC-9601	TAROLAN •NCC-9612
HIGHPORT •NCC-9644 ***	TA'VISTAR •NCC-9634
HUYGENSTADT •NCC-9606	TORUS •NCC-9613
IVERSON •NCC-9610 *	TURKANA •NCC-9609
KIR •NCC-9602	TYCHO •NCC-9618
K'LAN •NCC-9620	UTOPIA PLANITIA •NCC-9637
KOLARIPAM •NCC-9622	VALRIPAM •NCC-9606
KORAL •NCC-9626	VULCANA REGAR •NCC-9625
KYROA •NCC-9611	
LORTAN •NCC-9628	

\*CLASS SHIP, \*\*LOST IN THE LINE OF DUTY, \*\*\*PROPOSED, ALL NAMES PRECEDED WITH "U.S.S."

## CRUISER

### Tractor Beam Specifications

Primary Tractor Beam Load Calculator



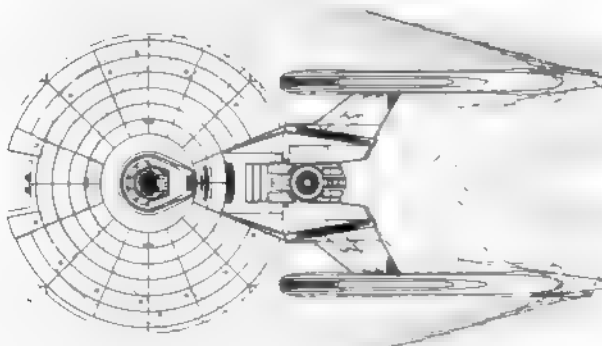
Field Length 798.16m  
Field Width 186.53m  
Field Height 71.73m



Front Warp Field Profile  
Cross Section Area 10031.40 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 23957.57 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 87808.46 m<sup>2</sup>

# DESTROYER



## General Information

**Specific Role:** The Destroyer is a swift, powerful, cost effective starship used for patrols, surveillance and Federation defense. The primary mission of the destroyer is extended patrol duty along various treaty zones. During military operations the destroyer is used for assault missions and perimeter defense for the larger capital ships. The destroyer is also used to escort civilian ships through troubled regions. The vessel is equipped with extensive ECM equipment to help it survive. The vessel's small size makes it both swift and hard to target.

**Physical Description:** The destroyer's (PH147/D-M1) primary hull is reinforced and equipped with supplemental targeting sensors and a small hangar deck (located on the upper starboard side). Integrated into the standard deflector grid are additional electronic counter-measures to make the vessel more stealthy. The primary hull is also equipped with a (BS10/D-T1) tactical bridge which incorporates a larger weapons and tracking station. On the lower part of the primary hull is the (SM49/2J) main sensor array and (DN1/2 B) navigational dome. Located port, starboard and to the front, on both top and bottom of the primary hull are 6 (BP2/30-2C) phaser banks. To the rear of the primary hull are (IP186E/2-IR) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessels's warp fields are generated in a single (SW52/1-5RT) warp nacelle mounted underneath the secondary hull by a (DU/50-48Y) connecting dorsal. Inside the dorsal are the (M20/10-1C) intermix chamber and (AM8/18-2B) matter/antimatter storage tanks. The storage tanks are located on the rear of the connecting dorsal for emergency jettisoning. Sandwiched between the dorsal and the nacelle is a forward facing (PB2/25-10D) photon torpedo bay. In the event of an emergency the primary hull can separate from the warp nacelle section. Once separated the primary hull can maneuver on impulse power for extended periods of time.

For additional detail refer to Datasheet MV-6

## Class Emblem



## Ship Silhouettes

Total Target Area 23852.86 m<sup>2</sup>  
Average Target Area 7950.89 m<sup>2</sup>



Top Silhouette  
Area 17018.87 m<sup>2</sup>



Port Silhouette  
Area 4892.85 m<sup>2</sup>

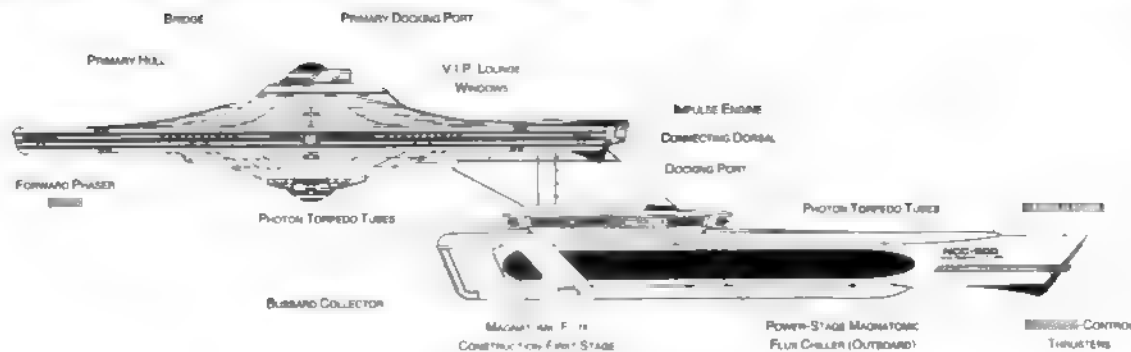


Front Silhouette  
Area 1940.74 m<sup>2</sup>

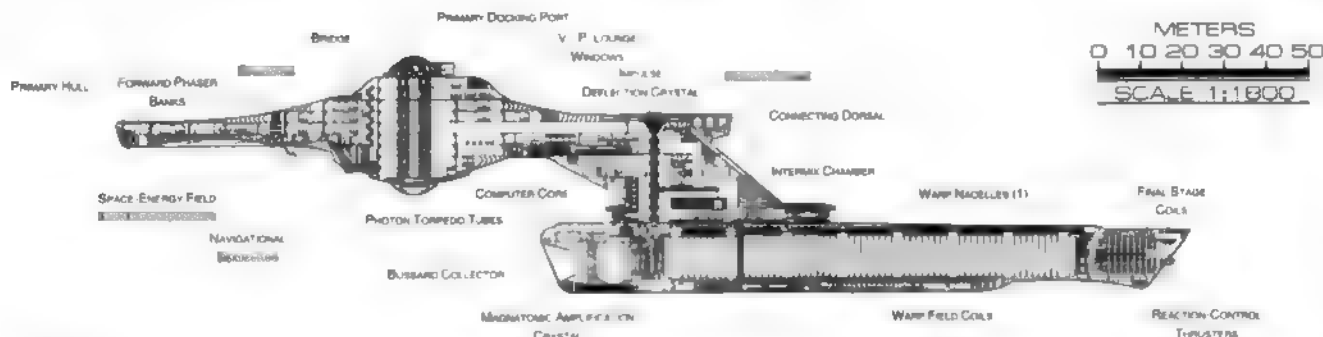


# DESTROYER

JENGHIZ CLASS



PORT PROFILE



CROSS SECTION

## Statistics

**Classification:** Destroyer

**Category:** Destroyer

**Class:** Jenghiz

**Type:** Class I

**Model:** MK VIIIa

**Naval Construction Contract:** 500

**Number Proposed:** 92

**Number Constructed:** 56

**Number in Service:** 53

**Number Lost:** 3

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 255.65 m

Width: 141.72 m

Height: 58.33 m

**Primary Hull Dimensions (Meters)**

Length: 146.31 m

Width: 141.72 m

Height: 32.94 m

**Secondary Hull Dimensions (Meters)**

Length: N/A

Width: N/A

Height: N/A

**Warp Unit Dimensions (Meters)**

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

**Displacement (Metric Tons)**

Light: 107300 mt

Standard: 114960 mt

Full Load: 128332 mt

**Performance:**

**Impulse Units:** Dual Unit (IP1186E/2-IR)

**Impulse Engine Output:**  $7.8 \times 10^{13}$  W

**Impulse Power Index:** 1.72

**Max Cruising:** C

**Acceleration:**

0.00-0.25 Impulse: 0.116 sec

0.25-0.50 Impulse: 0.175 sec

0.50-0.75 Impulse: 0.233 sec

0.75-Full Impulse: 0.291 sec

**Warp Units:** 2 Nacelle Units (SW52/1-5RT)

**Warp Engine Output:**  $6 \times 10^{14}$  W

**Warp Power Index:** 0.86

**Optimum Speed:** 4

**Max Safe Cruising:** 6

**Emergency Speed:** 8.01

**Max Speed:** 9.11

**Destructive Speed:** 1.408

**Acceleration Power:** 3

**Acceleration Times:**

Warp 1 - Warp 2: 0.233 sec

Warp 2 - Warp 3: 0.372 sec

Warp 3 - Warp 4: 1.408 sec

Warp 4 - Warp 5: 2.025 sec

Warp 5 - Warp 6: 2.165 sec

Warp 6 - Warp 7: 2.339 sec

Warp 7 - Warp 8: 3.003 sec

Warp 8 - Warp 9: 4.295 sec

Warp 9 - Warp 9.5: 9.544 sec

Warp 9.5 - Warp 9.75: 11.057 sec

Warp 9.75 - Warp 9.9: 22.929 sec

**Duration (Years)**

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

Standard: 10 years

**Brigs:** 12

**Replicators:** 9

**Traitor Beams:** 1

**Tow Capacity:**  $1.5 \times 10^8$  mt

**Max Range:**  $7.5 \times 10^4$  km

**Cargo Specification:**

**Standard Cargo Units:** 185

**Cargo Capacity:** 9250 mt

**Shuttlecraft Specifications:**

**Docking Ports:** 3

**Shuttlecraft Bays Total:** 1

**Small Bay:** 1

**Medium Bay:** 0

**Large Bay:** 0

**Super Bay:** 0

**Work Bees:** 1

**Travel Pods:** 1

**Aquatic Shuttle:** 1

**Light Shuttle:** 0

**Standard Shuttle:** 0

**Heavy Shuttle:** 1

**Cargo Shuttle:** 1

**Light Fighter:** 2

**Fighter:** 2

**Heavy Fighter:** 2

**Lifeboats:** 31

**Turbolift (8 person):** 14

**Lifeboat (10 person):** 12

**Lifeboat (20 person):** 5

**Lifeboat (30 person):** 0

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 1.31

**Stellar Survey:** 1.11

**Short Range:** 1.33

**Long Range:** 1.12

**Navigation:** 1.31

**Special:** 1.83

**Computers:** 2

**Type:** Daystrom Duetronic 1-III-7

**Type:** Daystrom Duetronic 1-III-7

**ECM Index:** 1.19

**Shield Rating:**

**Shield Index:** 1.82

**Holdoff Power:**  $3.44 \times 10^{12}$  W

**Refresh Rate:**  $9.77 \times 10^{11}$  W

**Breakdown Rate:**  $1.17 \times 10^{12}$  W

**Length:** 383.5 m

**Width:** 212.6 m

**Height:** 84.5 m

**Weapons:**

**Phaser Power Index:** 1.15

**Photon Power Index:** 2.06

**Vessel Power Index:** 1.80

**Weapon Placement:**

**Beam (Phasers) Total:** 6 banks 2 each

**Output:**  $5 \times 10^{11}$  W  $2.5 \times 10^{11}$  W

**Range:**  $2.5 \times 10^5$  km

**Rate of Fire:** 30 ppm/Com

**Forward Banks:** 3

**Rear Banks:** 3

**Port/Starboard Banks:** 0

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** 2 Bays

**Stock:** 30

**Range:**  $2 \times 10^5$  km

**Output:** 10-50 MT

**Rate of Fire:** 10 spm

**Forward Bay:** 1

**Rear Bay:** 0

**Port Bay:** 0

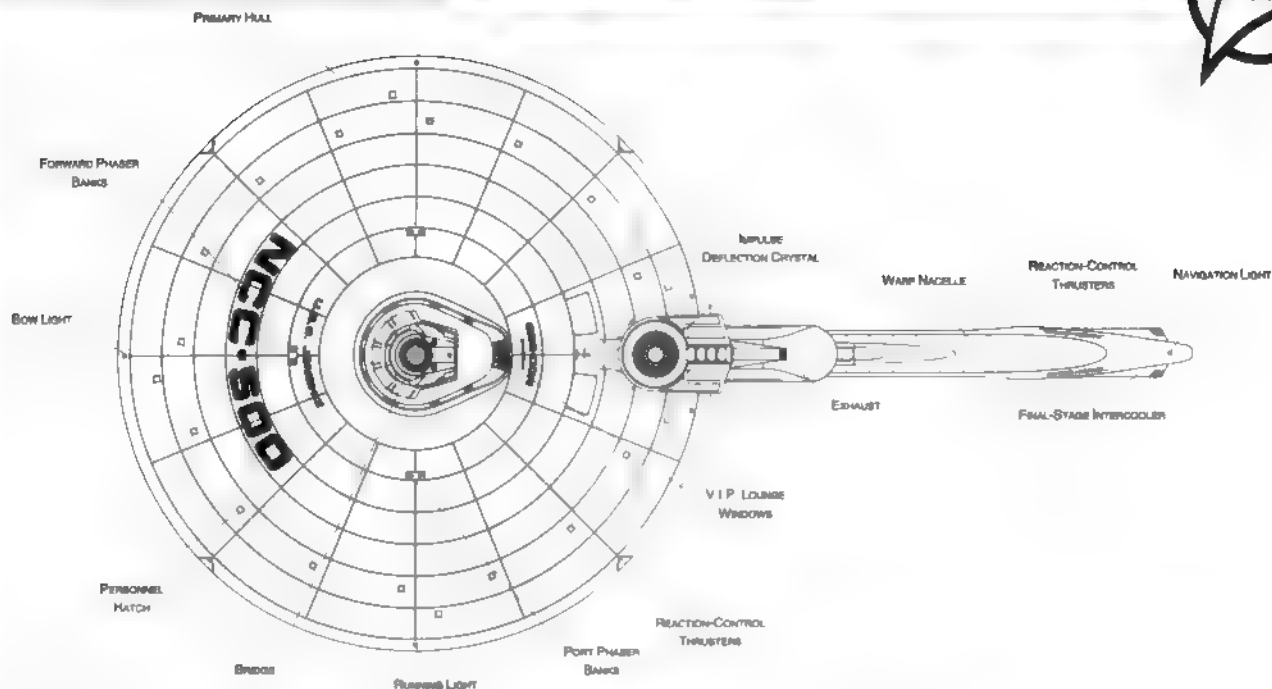
**Starboard Bay:** 0

**Upper Bay:** 0

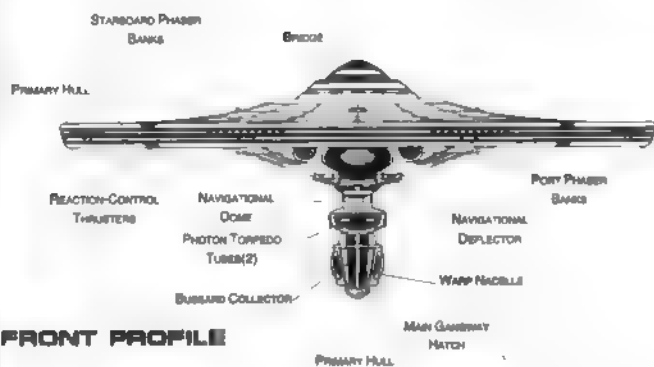
**Lower Bay:** 0

FEDERATION VESSEL

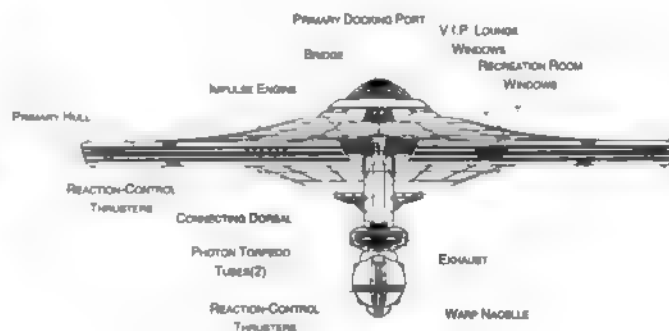
## DESTROYER



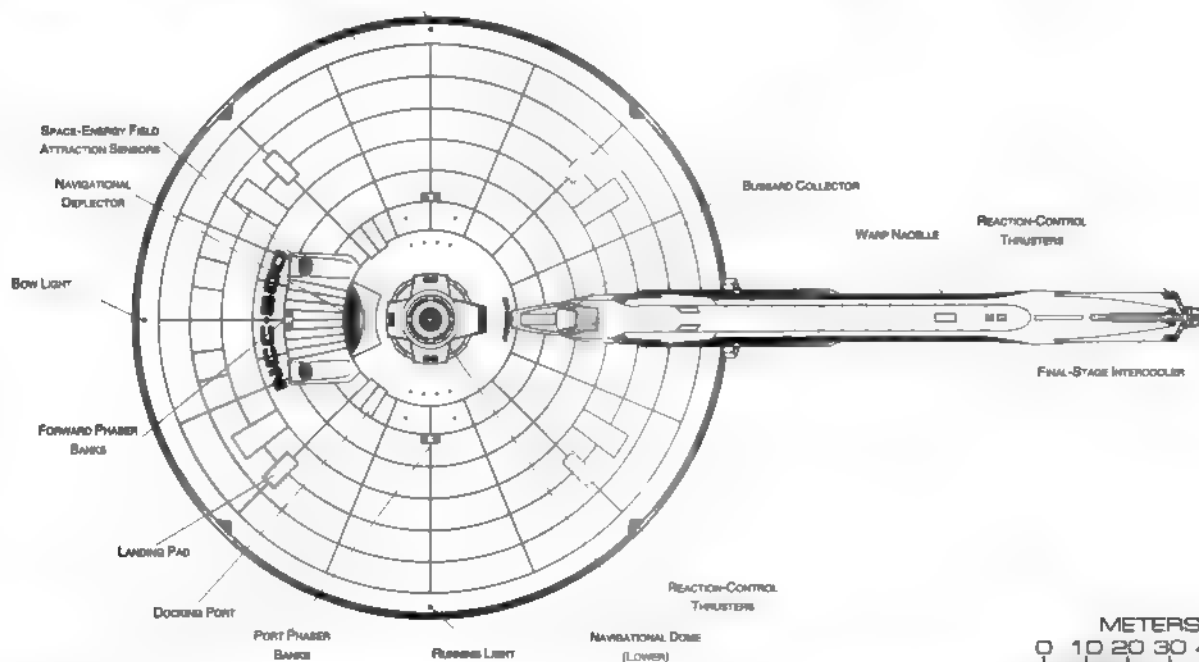
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:1800



# Ship Names

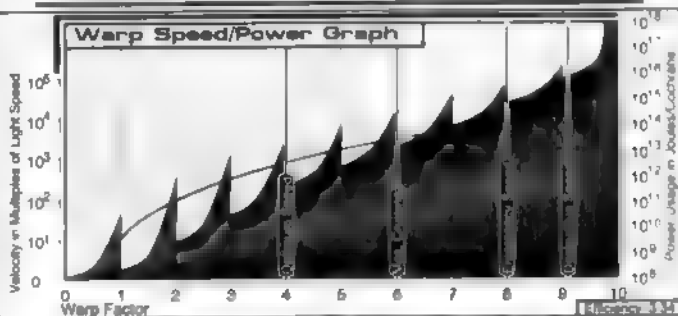
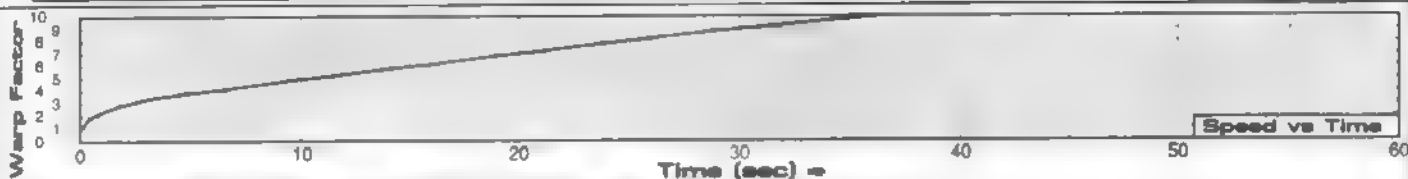
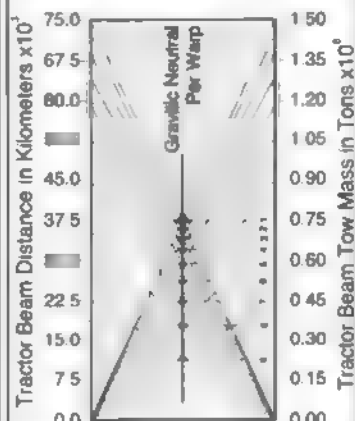
THE FOLLOWING SHIPS OF THE MK-VIII<sup>a</sup> CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2259.10

ACHILLES •NCC-561	DRAKE •NCC-541	LOKI •NCC-529	SALADIN •NCC-500
ADAM •NCC-518	DROTE •NCC-573***	LUCIFER •NCC-521	SAMSON •NCC-543***
ADU BEKA •NCC-549	EL CID •NCC-534	LYSANDER •NCC-540	SARGON •NCC-504
AHRIMAN •NCC-513	ESCH •NCC-583***	MANLY •NCC-587***	SCIPIO •NCC-553
AJAX •NCC-547	ETZEL •NCC-509	MARS •NCC-525	SHAITAN •NCC-519
AKBAR •NCC-548	FITZGERALD •NCC-585***	MARTEL •NCC-564	SIVA •NCC-520
AL MAHDI •NCC-545	GAUGHT •NCC-581***	MCWHIRTER •NCC-586***	STRONG •NCC-559***
ALARIC •NCC-503	GERANIMO •NCC-536	MOLOCK •NCC-522	SULEIMAN •NCC-508
ALEXANDER •NCC-511	GUANNADA •NCC-568	MORRISON •NCC-588***	TAMERLANE •NCC-510
ALLEYNE •NCC-557***	HAGBERTY •NCC-586***	MURREL •NCC-578***	THESEUS •NCC-562
ALVA •NCC-531**	HAMILCAR •NCC-518	NASPYPANY •NCC-591***	THOMASON •NCC-565***
ALVARADO •NCC-537	HANNIBAL •NCC-512	NEAL •NCC-592***	TIPPS •NCC-574***
APPOLLYN •NCC-542	HARLEY •NCC-561***	NELSON •NCC-546	TREHLOW •NCC-578***
ARES •NCC-524	HATHOR •NCC-523	NEY •NCC-533	TUCKER •NCC-577***
AZRAEL •NCC-517	HEKTOR •NCC-523	NIETO •NCC-584***	TYR •NCC-526
BROOKINGS •NCC-582***	HUMES •NCC-572***	NIXON •NCC-570***	WAYLANDER •NCC-580***
CIMON •NCC-555	IBLIS •NCC-528	ORR •NCC-580***	WILKES •NCC-560***
CLAXTON •NCC-571***	IVAN •NCC-550	PACKARD •NCC-589***	XERXES •NCC-505
COCHISE •NCC-530	JENGHIZ •NCC-501*	PERSEUS •NCC-544	
COLEBAUGH •NCC-586***	JOYNER •NCC-584***	POMPEY •NCC-508**	
CORTEZ •NCC-536	JUGURTHA •NCC-527	PONTIAC •NCC-532	
DANLEY •NCC-578***	KUBLAI •NCC-507	QUIGLEY •NCC-583***	
DARIUS •NCC-502	LANE •NCC-589***	RAHMAN •NCC-514	
DE RUYTER •NCC-538	LEBLANC •NCC-579***	ROBBINER •NCC-587***	
DIEKMAN •NCC-558***		RUSAK •NCC-582***	

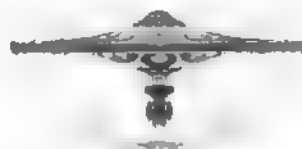
\*CLASS SHIP, \*\*LOST IN THE LINE OF DUTY, \*\*\*PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



Field Length 492.44m  
Field Width 156.08m  
Field Height 78.22m



Front Warp Field Profile  
Cross Section Area 9266.99 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 23718.10 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 47816.18 m<sup>2</sup>





## General Information

**Specific Role:** The Scout is an fast, cost effective starship used for patrols, surveillance and Federation defense. The primary mission of the Scout, using surveillance equipment, is to perform extended reconnaissance patrols into critical areas ahead of Federation vessels. During normal operations the scout is used for both surveillance and picket duty around capital ships. The vessel's small size make it both swift and difficult to target.

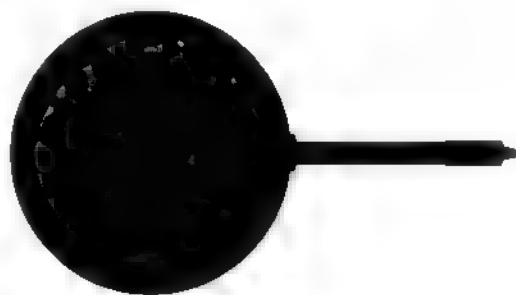
**Physical Description:** The (PH147/S-M2) primary hull is equipped with additional sensors, hull reinforcements and a small hangar deck (located on the upper starboard side). Integrated into the standard deflector grid are additional electronic counter measures to make the vessel more stealthy. The primary hull is equipped with the (BS11/S-D1) bridge which incorporates the larger enhanced sensors and tracking station. On the lower part of the primary hull is the (SM49/4H) main sensor array and (DN1/9-1) navigational dome. Below the warp nacelles is the (SME352/2A) lower sensor array. Located port, starboard and to the front, on both top and bottom of the primary hull are 6 (BP2/30-2C) phaser banks. To the rear of the primary hull are (IP186E/2-SB) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessel's warp fields are generated a single (SW52/1-5H) warp nacelle mounted underneath the secondary hull by a (DU/50-48S) connecting dorsal. Inside the dorsal are the (M20/10-1E) intermix chamber and (AM8/18-2A) matter/antimatter storage tanks. The storage tanks are located on the rear of the connecting dorsal for emergency jettisoning. Nestled between the dorsal and the nacelle is a forward facing (PB2/25-10E) photon torpedo bay. In the event of an emergency the primary hull can separate from the warp nacelle section. Once separated the primary hull can maneuver on impulse power for extended periods of time.

## Class Emblem



## Ship Silhouettes

Total Target Area 27021.37 m<sup>2</sup>



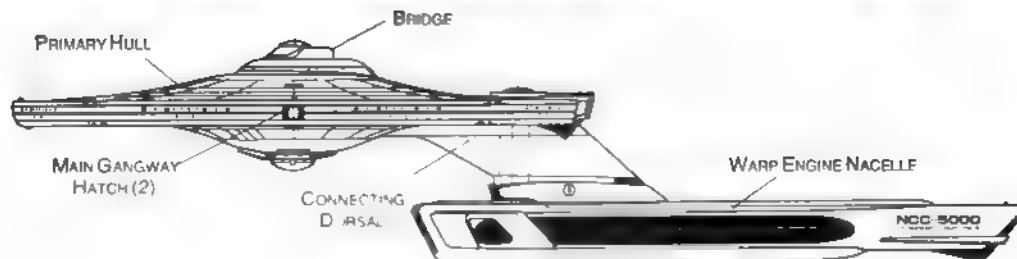
Top Silhouette  
Area 18870.17 m<sup>2</sup>



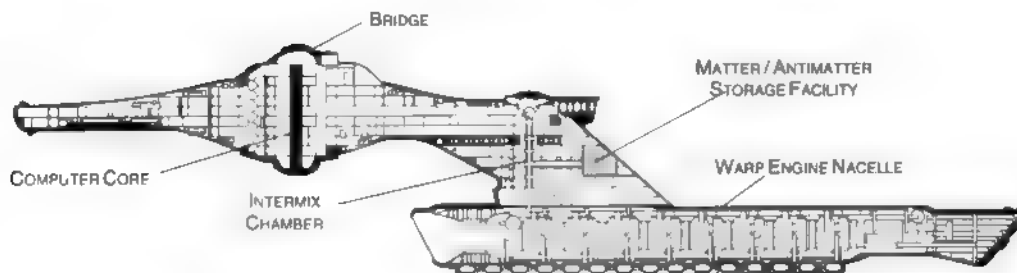
Port Silhouette  
Area 5806.24 m<sup>2</sup>



Front Silhouette  
Area 2344.96 m<sup>2</sup>



PORT PROFILE



CROSS SECTION

0 10 20 30 40 50

SCALE 1:2000

## Statistics

**Classification:** Scout

**Category:** Scout

**Class:** Anderson

**Type:** Class 1

**Model:** MK-VII

**Naval Construction Contract:** 5000

**Number Proposed:** 98

**Number Constructed:** 98

**Number in Service:** 94

**Number Lost:** 4

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 255.65m

Width: 141.72m

Height: 58.17m

**Primary Hull Dimensions (Meters)**

Length: 146.31m

Width: 141.72m

Height: 32.94m

**Secondary Hull Dimensions (Meters)**

Length: N/A

Width: N/A

Height: N/A

**Warp Unit Dimensions (Meters)**

Length: 154.81m

Width: 12.63m

Height: 18.32m

**Displacement (Metric Tons)**

Light: 141,265mt

Standard: 151,350mt

Full Load: 168,955mt

**Performance:**

**Impulse Units:** Dual Unit (RF35E/3-SB)

**Impulse Engine Output:** 7.8x10<sup>13</sup> W

**Impulse Power Index:** 1.70

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.117 sec

0.25-0.50 Impulse: 0.176 sec

0.50-0.75 Impulse: 0.235 sec

0.75-Full Impulse: 0.294 sec.

**Warp Units:** 2 Nacelle Joints (SW52.1-5H)

**Warp Engine Output:** 1.20x10<sup>15</sup> W

**Warp Power Index:** 0.85

**Optimum Speed:** Warp 4

**Max. Safe Cruising:** Warp 6

**Emergency Speed:** Warp 8.01

**Max. Speed:** Warp 9.11

**Destructive Speed:** Warp 9.26

**Acceleration Power:** 3.0

**Acceleration Times:**

Warp 1 - Warp 2: 0.235 sec

Warp 2 - Warp 3: 0.376 sec

Warp 3 - Warp 4: 1.422 sec.

Warp 4 - Warp 5: 2.044 sec

Warp 5 - Warp 6: 2.185 sec.

Warp 6 - Warp 7: 2.361 sec.

Warp 7 - Warp 8: 3.031 sec.

Warp 8 - Warp 9: 4.335 sec.

Warp 9 - Warp 9.5: 9.634 sec

Warp 9.5 - Warp 9.75: 11.161 sec.

Warp 9.75 - Warp 9.9: 23.144 sec.

**Duration (Years)**

Standard: 6 Years

Maximum: 24 Years

**Std. Ship Complement:** 344

Officers: 57

Crew (Ensign Grade): 277

Troops: 10

Passengers: 29

Emergency condition: +461

**Medical Facilities:**

Doctors: 4

Nurses: 21

Operating Rooms: 3

Beds: 21

**Laboratories:** 20

**Transporters Total:** 9

1 Person: 0

2 Person: 0

6 Person: 3

12 Person: 0

22 Person: 3

Small Cargo: 2

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

**Brigs:** 7

**Replicators:** 11

**Traitor Beams:** 1

**Tow Capacity:** 2.61x10<sup>6</sup>mt

**Max Range:** 7.43x10<sup>4</sup>km

**Cargo Specification:**

Standard Cargo Units: 191

Cargo Capacity: 9,500mt

**Shuttlecraft Specifications:**

Docking Ports: 3

Shuttlecraft Bays Total: 1

Small Bay: 1

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 15

Work Bees: 1

Travel Pods: 1

Aquatic Shuttle: 0

Light Shuttle: 1

Standard Shuttle: 3

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 1

Killer Bees: 2

Fighter: 2

Heavy Fighter: 2

Lifeboats: 38

Turbolift (8 person): 23

Lifeboat (10 person): 11

Lifeboat (20 person): 3

Lifeboat (30 person): 1

**Cloaking Devices:** 0

**Sensor Index Values:**

Planetary Survey: 1.7144

Stellar Survey: 1.7570

Short Range: 1.2935

Long Range: 1.3526

Navigation: 0.9987

Special: 1.8196

**Computers:** 2

Type: Daystrom Duotronic III s

Type: Daystrom Duotronic II y

**ECM Index:** 1.37

**Shield Rating:**

Shield Index: 1.60

Holdoff Power: 3.04x10<sup>12</sup> W

Refresh Rate: 8.64x10<sup>11</sup> W

Breakdown Rate: 1.04x10<sup>12</sup> W

Shield Dimensions (Meters)

Length: 322.93m

Width: 177.01m

Height: 73.48m

**Weapons:**

Phaser Power Index: 1.135

Photon Power Index: 2.04

Vessel Power Index: 1.59

**Weapon Placement**

**Beam (Phasers) Total:** 6 banks 2 each

Output: 5.0x10<sup>11</sup> W / 2.5x10<sup>11</sup> W

Range: 2.5x10<sup>5</sup> km

Rate of Fire: 30 ppm / Cont

**Forward Banks:** 2

**Rear Banks:** 0

**Port Banks:** 2

**Starboard Banks:** 2

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 0

Output: N/A

Range: N/A

Rate of Fire: N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** 1 Bay 2 each

Stock: 30

Range: 2.0x10<sup>5</sup> km

Output: 10-50 Megatons

Rate of Fire: 10 ppm

**Forward Bay:** 1

**Rear Bay:** 0

**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

**Lower Bay:** 0

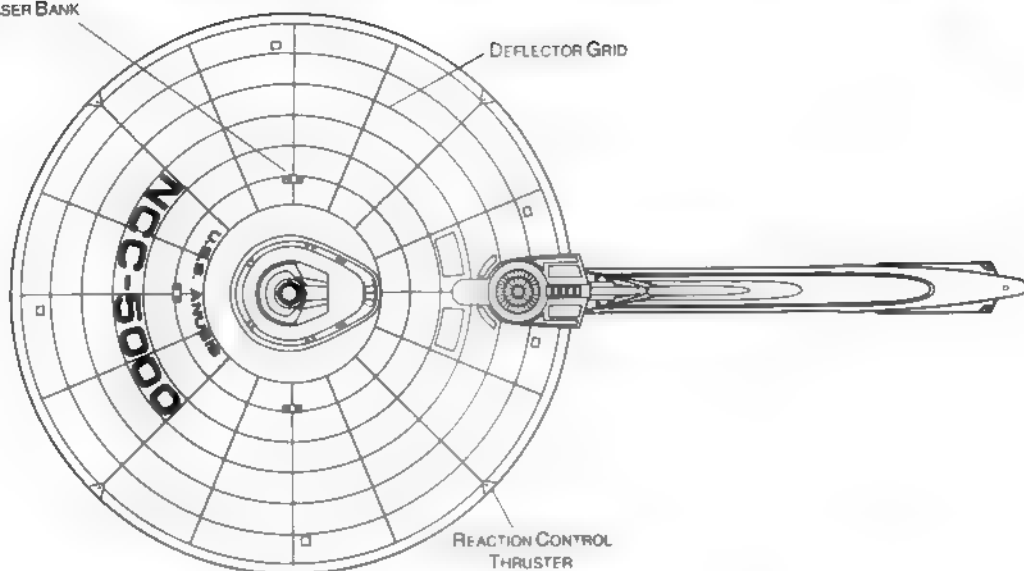
# SCOUT



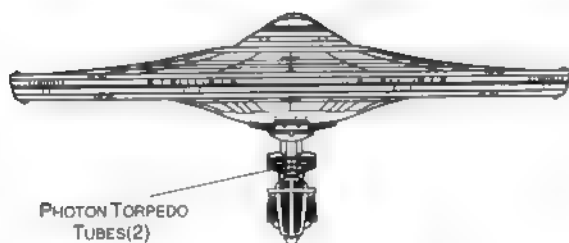
ANJELUS CLASS

PHASER BANK

DEFLECTOR GRID

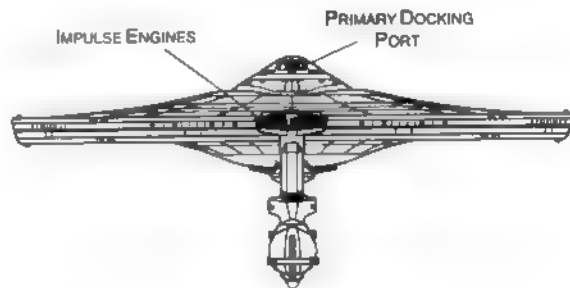


PHOTON TORPEDO  
TUBES(2)



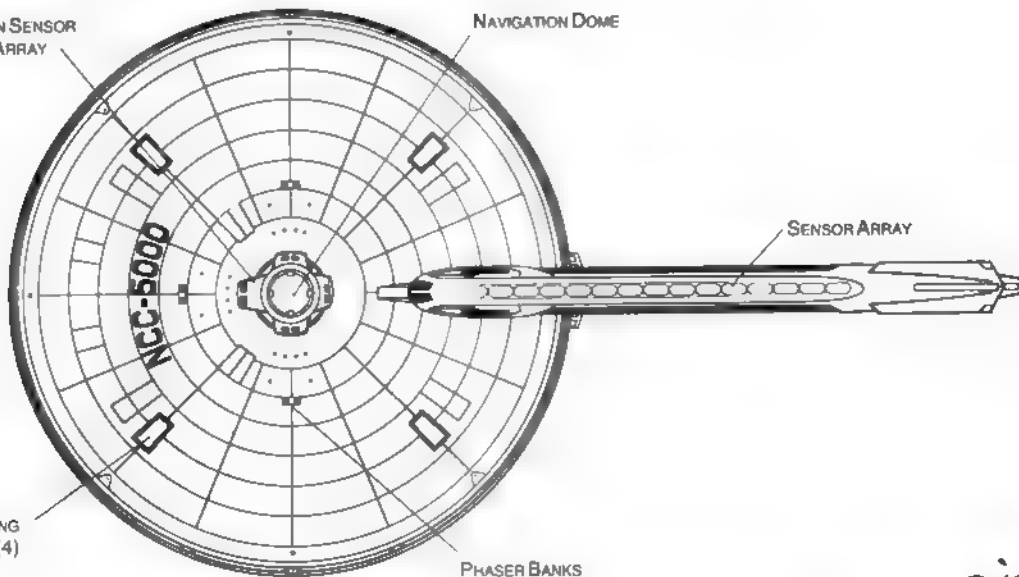
IMPULSE ENGINES

PRIMARY DOCKING  
PORT



MAIN SENSOR  
ARRAY

NAVIGATION DOME



LANDING  
PADS (4)

PHASER BANKS

SENSOR ARRAY

METERS  
0 10 20 30 40 50  
SCALE 1:2

FEDERATION VESSEL



## Ship Names

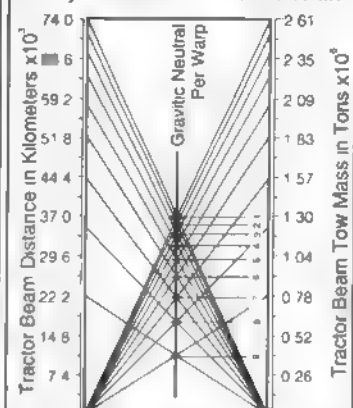
THE FOLLOWING SHIPS OF THE MK-XXX CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2269.3

AEOLUS +NCC 5002**	CYGNUS +NCC 5031	KILPATRICK +NCC 5065	QUINTILLUS +NCC 5004
ANJUBUS +NCC 5000*	DABILLA +NCC 5069	LAGRONE +NCC 5081	RAMOS +NCC 5074
APPEL +NCC 5053	DEBNAM +NCC 5063	LEO +NCC 5021	REDWINE +NCC 5045
APUS +NCC 5032	DIANA +NCC 5003	LEO MINOR +NCC 5028	REVERE +NCC 5009
AQUILA +NCC 5037	DOWNING +NCC 5058	LEPUS +NCC 5024	RIEGER +NCC 5040
ARIES +NCC 5016	DYKES +NCC 5051	LEVERETT +NCC 5084	ROLLINS +NCC 5050
AVERITT +NCC 5060	ECKEL +NCC 5042	LOHMANN +NCC 5088**	SAGAJAWEA +NCC 5012
BAGGETT +NCC 5066	EOLULLS +NCC 5017	LJPUS +NCC 5018	SARTAIN +NCC 5068
BATIDOR +NCC 5007	ESCALON +NCC 5049	LYNX +NCC 5022	SEBY +NCC 5067**
BORSCH +NCC 5073	EVERITT +NCC 5071	MARR +NCC 5062	NEED +NCC 5047
BOWIE +NCC 5011	FABLA +NCC 5078	MAVRANG +NCC 5082	PAKER +NCC 5010
BRIDGER +NCC 5005	FEST +NCC 5083	MAXIMER +NCC 5074	ALREE +NCC 5061
BURTON +NCC 5080	FORBES +NCC 5089	MEHER +NCC 5077	ALBUS +NCC 5013
CAMELOPAROUS +NCC 5020	GLIMORE +NCC 5095	MENOCERCS +NCC 5074	HATHER +NCC 5043
CANIS MAJOR +NCC 5025	GRADLE +NCC 5093	NAUSELY +NCC 5079	MAUS +NCC 5052
CANIS MINOR +NCC 5029	GRUS +NCC 5038	NORTHGUTT +NCC 5064	DAIT +NCC 5013
CARSON +NCC 5006	HAGHT +NCC 5087	ODELL +NCC 5041	TRICE +NCC 5057
CARSTEN +NCC 5085	HAMILTON +NCC 5092	OLIVAS +NCC 5044	TUCANA +NCC 5033
CHALENCH +NCC 5091	HERMES +NCC 5001	PACE +NCC 5048	JPSHAW +NCC 5056
CODY +NCC 5008	HUSEMANN +NCC 5094	PARMELEY +NCC 5054**	IRSA MAJOR +NCC 5023
COLUMBIA +NCC 5035	ICKES +NCC 5096	PAVO +NCC 5036	IRSA MINOR +NCC 5030
CONRAD +NCC 5097	ISHAM +NCC 5090	PEGASUS +NCC 5026	VANN +NCC 5072
CORVUS +NCC 5034	JAEKEL +NCC 5046	PENOVER +NCC 5059	VULPECULA +NCC 5027
CROCKETT +NCC 5014	JJRIK +NCC 5055	PHOENIX +NCC 5039	
CURRY +NCC 5076	KEEFER +NCC 5062	QUILADA +NCC 5070	

CLASS SHIP. "LOST IN THE LINE OF DUTY." "PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

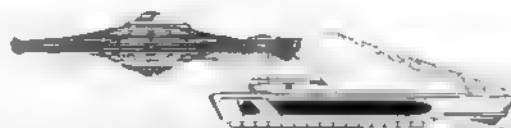
Primary Tractor Beam Load Calculator



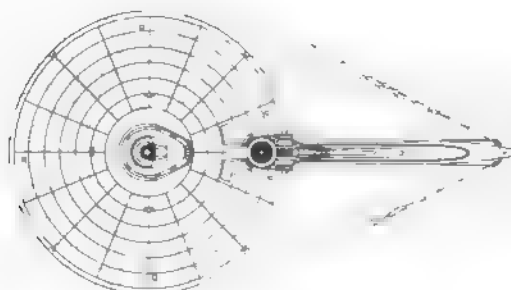
Field Length 548.28m  
Field Width 173.44m  
Field Height 71.15m



Front Warp Field Profile  
Cross Section Area 11500.6 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 26343.40 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 58356.92 m<sup>2</sup>

# STAR CRUISER



## General Information

**Specific Role:** The Star Cruiser is a long range exploration research vessel. This vessel is equipped with six multipurpose research bays that allow various experiments and sensors to be exposed to space. The Star Cruiser is able to maintain sustained warp speeds for extended periods of time through the use of four warp nacelles which phase shift through alternating pairs to reduce the stress to any one engine. The additional engines and redundant equipment allow the cruiser to explore areas away from Federation space where assistance may not be immediately available.

**Physical Description:** The Star Cruiser's extra thick (XTPH147/F M1) hull uses elements from standard primary hull designs and is equipped with additional research systems and laboratories. Integrated into the standard deflector grid are additional electronic counter-measures to make the vessel more stealthy. The hull is equipped with the (BS11/S-D3) bridge which incorporates the enhanced sensor and scientific stations. On the lower part of the primary hull is the (SM54/9K) main sensor array and (DN6/1-V) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. To the front of the primary hull both port and starboard are two (HP2/22-2G) heavy phaser banks. Incorporated into the nacelle support pylons are forward and rear firing (PB1-1/50-10E) photon torpedo tubes. On the lower forward section of the primary hull are (DN6/A-9) navigational deflectors which assist the navigational shields in deflecting oncoming debris. To the front of the primary hull is a medium hangar deck. Around the primary hull are six multipurpose research bays. To the rear of the hull are two (IRF35E/5 TR) dual impulse units which are used for auxiliary power and sub-warp propulsion. The cruiser's warp fields are generated by four (SW52/1-5RT) warp nacelles attached in pairs. Each set is attached to the primary hull by (DU/40-30T) support pylons. Inside the pylons is the (M18/12-2E) intermix chamber. To the rear of the hull are the (AM8/58-7S) matter/antimatter storage tanks which allow for emergency jettisoning. In the event of an emergency the primary hull can separate from one or more of the warp nacelles and proceed on the remaining nacelle or impulse power.

### Class Emblem



### Ship Silhouettes

Total Target Area 49318.04 m<sup>2</sup>



Top Silhouette  
Area 32031.58 m<sup>2</sup>



Port Silhouette  
Area 11707.78 m<sup>2</sup>



Front Silhouette  
Area 5578.78 m<sup>2</sup>



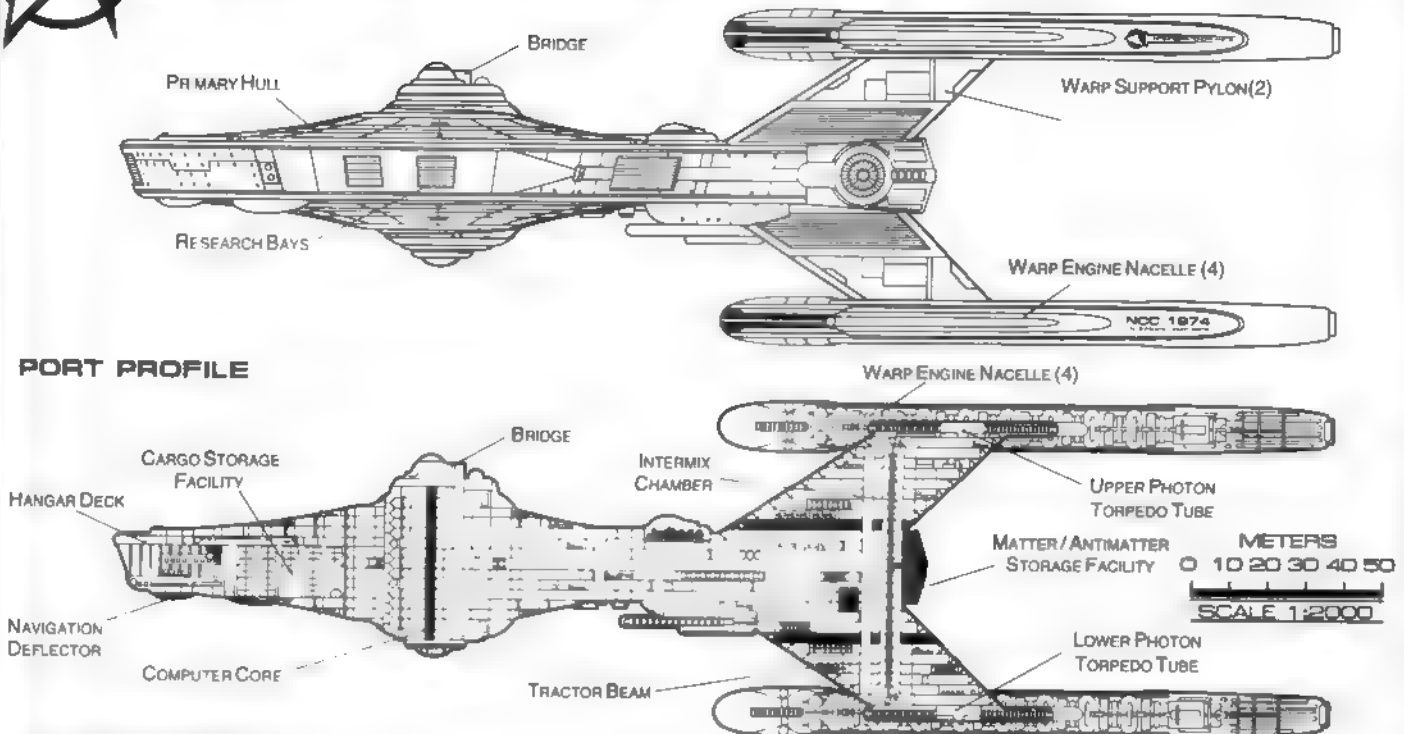


# STAR CRUISER

CONSTELLATION CLASS

FEDERATION VESSEL

PORT PROFILE



CROSS SECTION

## Statistics

**Classification:** Star Cruiser  
**Category:** Research Vessel  
**Class:** Constellation  
**Type:** Class 1  
**Model:** MK XXVI  
**Naval Construction Contract:** 1974  
**Number Proposed:** 9  
**Number Constructed:** 9  
**Number in Service:** 7  
**Number Lost:** 2

**Dimensions:**  
**Overall Dimensions (Meters)**  
Length: 305.97m  
Width: 161.89m  
Height: 84.50m  
**Primary Hull Dimensions (Meters)**  
Length: 205.18m  
Width: 161.88m  
Height: 50.91m  
**Secondary Hull Dimensions (Meters)**  
Length: N/A  
Width: N/A  
Height: N/A

**Warp Unit Dimensions (Meters)**  
Length: 155.59m  
Width: 12.63m  
Height: 18.32m  
**Displacement (Metric Tons)**  
Light: 332,449mt  
Standard: 356,182mt  
Full Load: 397,613mt

**Performance:**  
**Impulse Units:** 2 Dual Unit (IRF35E/5-TR)  
**Impulse Engine Output:**  $1.6 \times 10^{14}$  W  
**Impulse Power Index:** 1.034  
**Max Cruising:** C  
**Acceleration Rate:**  
0.00-0.25 Impulse: 0.180 sec  
0.25-0.50 Impulse: 0.270 sec  
0.50-0.75 Impulse: 0.361 sec  
0.75-Full Impulse: 0.451 sec  
**Warp Units:** 4 Nacelle Units (SW54/1-5UI)  
**Warp Engine Output:**  $2.4 \times 10^{15}$  W  
**Warp Power Index:** 1.11

**Optimum Speed:** Warp 6  
**Max. Safe Cruising:** Warp 8.1  
**Emergency Speed:** Warp 9  
**Max. Speed:** Warp 9.25  
**Destructive Speed:** Warp 9.35  
**Acceleration Power:** 3.0  
**Acceleration Times:**  
Warp 1 - Warp 2: 0.180 sec  
Warp 2 - Warp 3: 0.288 sec  
Warp 3 - Warp 4: 1.091 sec  
Warp 4 - Warp 5: 1.569 sec  
Warp 5 - Warp 6: 1.677 sec  
Warp 6 - Warp 7: 1.812 sec  
Warp 7 - Warp 8: 2.326 sec  
Warp 8 - Warp 9: 3.327 sec  
Warp 9 - Warp 9.5: 7.393 sec  
Warp 9.5 - Warp 9.75: 8.565 sec  
Warp 9.75 - Warp 9.9: 17.760 sec

**Life Span:**  
Standard: 7 Years  
Maximum: 28 Years

**Officer:** 85  
**Crew (Ensign Grade):** 416  
**Troops:** 31  
**Passengers:** 90  
**Emergency condition:** +500  
**Medical Facilities:**  
Doctors: 5  
Nurses: 26  
**Operating Rooms:** 4  
**Beds:** 26

**Laboratories:** 23  
**Transporters Total:** 12  
1 Person: 0  
2 Person: 0  
6 Person: 4  
12 Person: 0  
22 Person: 4  
**Small Cargo:** 2  
**Medium Cargo:** 2  
**Large Cargo:** 0  
**Super Cargo:** 0

**Brigs:** 22  
**Replicators:** 27  
**Tractor Beams:** 1  
**Tow Capacity:**  $3.88 \times 10^8$  mt  
**Max Range:**  $1.94 \times 10^5$  km  
**Standard Cargo Units:** 558  
**Cargo Capacity:** 27,900mt  
**Shuttlecraft Specifications:**  
**Docking Ports:** 3  
**Shuttlecraft Bays Total:** 1  
Small Bay: 0  
Medium Bay: 1  
Large Bay: 0  
Super Bay: 0  
**Shuttlecraft Standard:** 31  
**Work Bees:** 2  
**Travel Pods:** 1  
**Aquatic Shuttle:** 3  
**Light Shuttle:** 3  
**Standard Shuttle:** 10  
**Survey Shuttle:** 10  
**Heavy Shuttle:** 0  
**Cargo Shuttle:** 1  
**Assault Shuttle:** 0  
**Killer Bees:** 0  
**Fighters:** 3  
**Lifeboats:** 35  
TurboLift (8 person): 24  
Lifeboat (10 person): 7  
Lifeboat (20 person): 3  
Lifeboat (30 person): 1

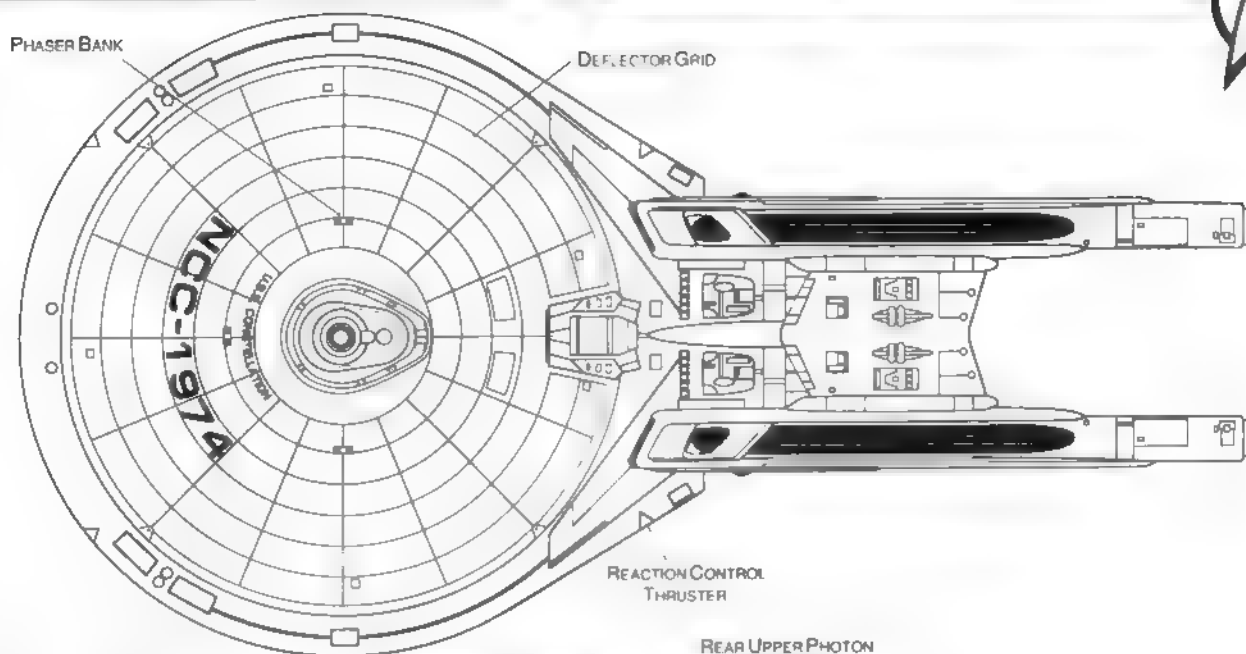
**Cloaking Devices:** 0  
**Sensor Index Values:**  
**Planetary Survey:** 1.5679  
**Stellar Survey:** 1.5909  
**Short Range:** 1.3065  
**Long Range:** 1.3256  
**Navigation:** 1.1040  
**Special:** 1.7811  
**Computers:** 2  
**Type:** Daystrom Duotronic IVa  
**Type:** Daystrom Duotronic IIIa

**ECM Index:** 1.25  
**Shield Rating:**  
**Shield Index:** 0.62  
**Holdoff Power:**  $3.60 \times 10^{12}$  W  
**Refresh Rate:**  $1.02 \times 10^{12}$  W  
**Breakdown Rate:**  $1.23 \times 10^{12}$  W  
**Shield Dimensions (Meters)**  
Length: 386.50m  
Width: 204.49m  
Height: 106.74m  
**Phaser Power Index:** 1.43  
**Photon Power Index:** 1.02  
**Vessel Power Index:** 1.23  
**Weapon Placement**  
**Beam (Phasers) Total:** 6 banks 2 each  
**Output:**  $5.0 \times 10^{11}$  W /  $2.5 \times 10^{11}$  W  
**Range:**  $2.5 \times 10^5$  km  
**Rate of Fire:** 30 ppm / Cont  
**Forward Banks:** 2  
**Rear Banks:** 0  
**Port Banks:** 2  
**Starboard Banks:** 2  
**Upper Banks:** 0  
**Lower Banks:** 1  
**Beam (HyPhasers) Total:** 2 banks 2 each  
**Output:**  $1.3 \times 10^{12}$  W /  $6.5 \times 10^{11}$  W  
**Range:**  $8.9 \times 10^5$  km  
**Rate of Fire:** 10 ppm / Cont  
**Forward/Rear Banks:** 0  
**Port/Starboard Banks:** 2  
**Upper/Lower Banks:** 0  
**Torpedoes (Photon) Total:** 2 Bay 2 each  
**Stock:** 80  
**Range:**  $2.0 \times 10^5$  km  
**Output:** 10-50 Megatons  
**Rate of Fire:** 10 spm  
**Forward Bay:** 2  
**Rear Bay:** 2  
**Port Bay:** 0  
**Starboard Bay:** 0  
**Upper Bay:** 0  
**Lower Bay:** 0

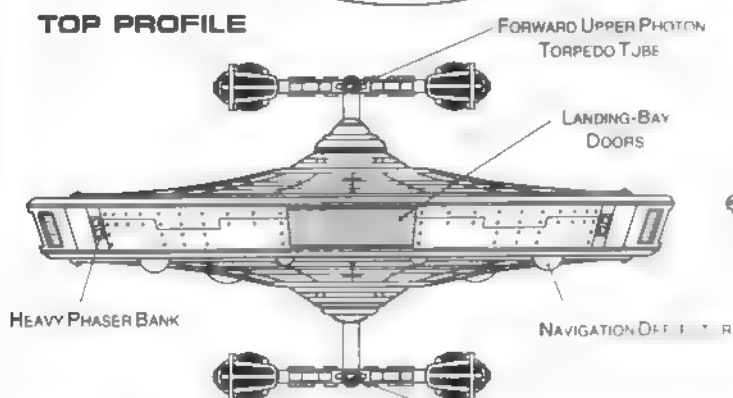
# STAR CRUISER



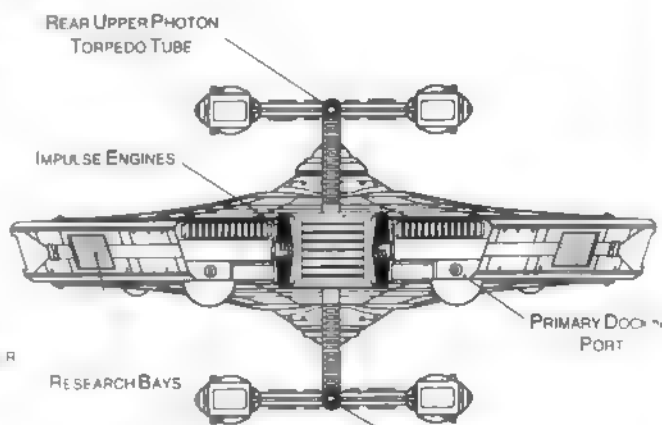
CONSTELLATION CLASS



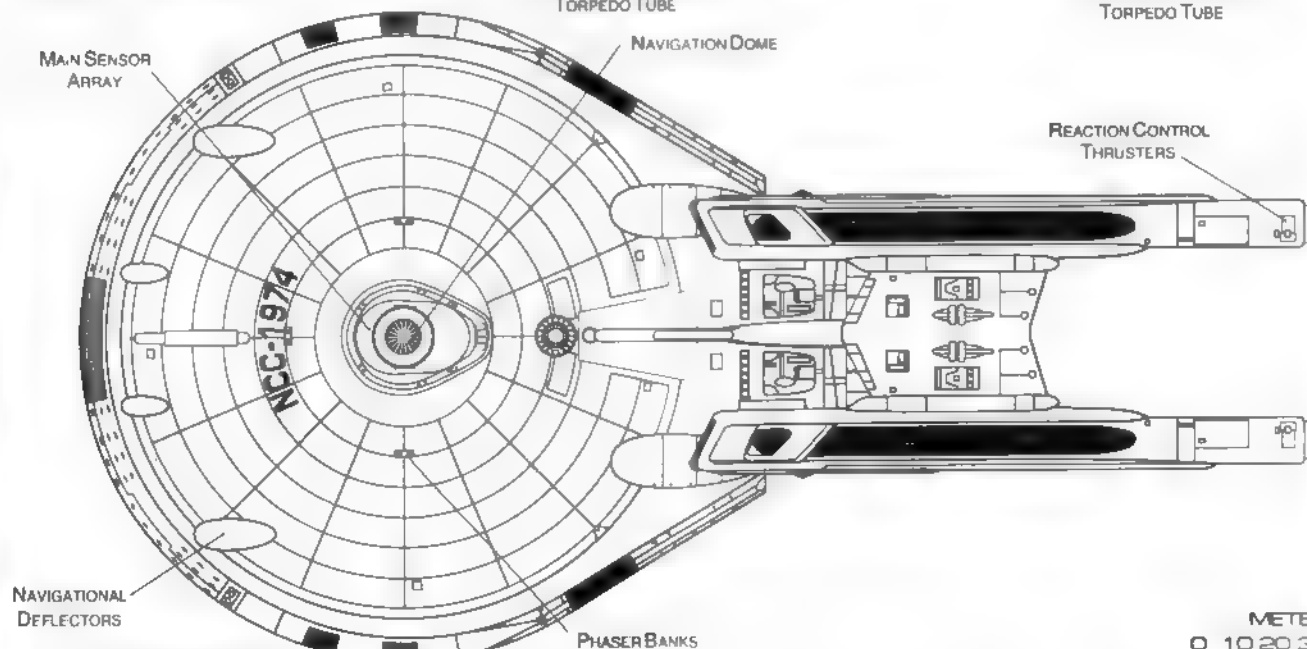
**TOP PROFILE**



**FRONT PROFILE**



**REAR PROFILE**



**BOTTOM PROFILE**

METERS  
0 10 20 30 40  
SCALE

FEDERATION VESSEL



# STAR CRUISER

## Ship Names

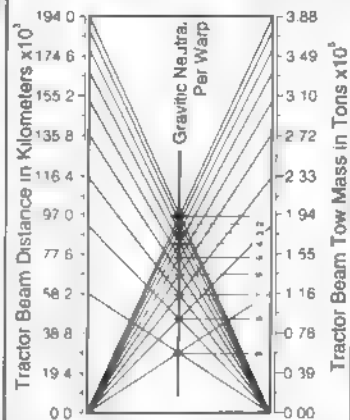
THE FOLLOWING SHIPS OF THE MK-XXVI CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2285.1

CONSTELLATION \*NCC 1974\*  
GETTYSBURG \*NCC-38902  
HATHAWAY \*NCC 2593  
LIENTOPARY \*NCC 5371  
NEBULARY \*NCC 1442  
ODAY \*NCC 26850  
STARGAZER \*NCC 2893\*\*  
STARQUEST \*NCC 2894\*\*  
VICTORY \*NCC 9754

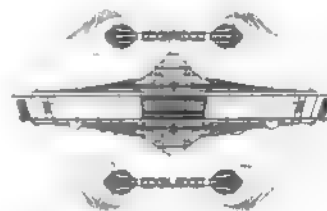
\*CLASS SHIP. \*\*LOST IN THE LINE OF DUTY. \*\*\*PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

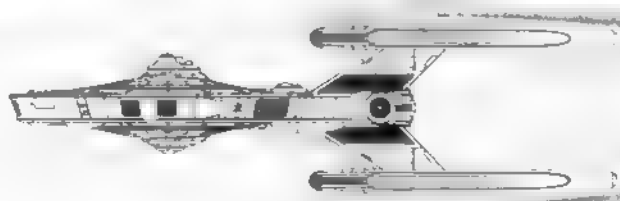
Primary Tractor Beam Load Calculator



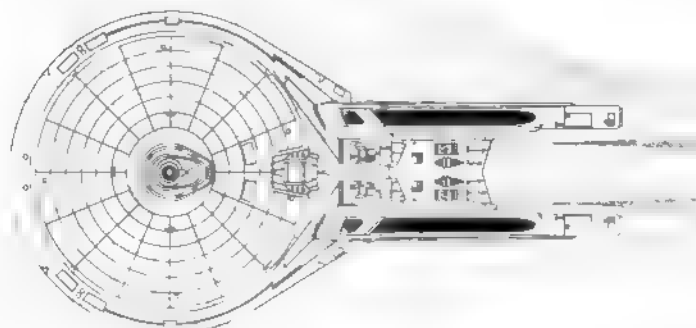
Field Length 737.74m  
Field Width 220.48m  
Field Height 117.49m



Front Warp Field Profile  
Cross Section Area 17949.52 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 58473.36 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 105548.58 m<sup>2</sup>

## WARP FIELDS

# HEAVY FRIGATE



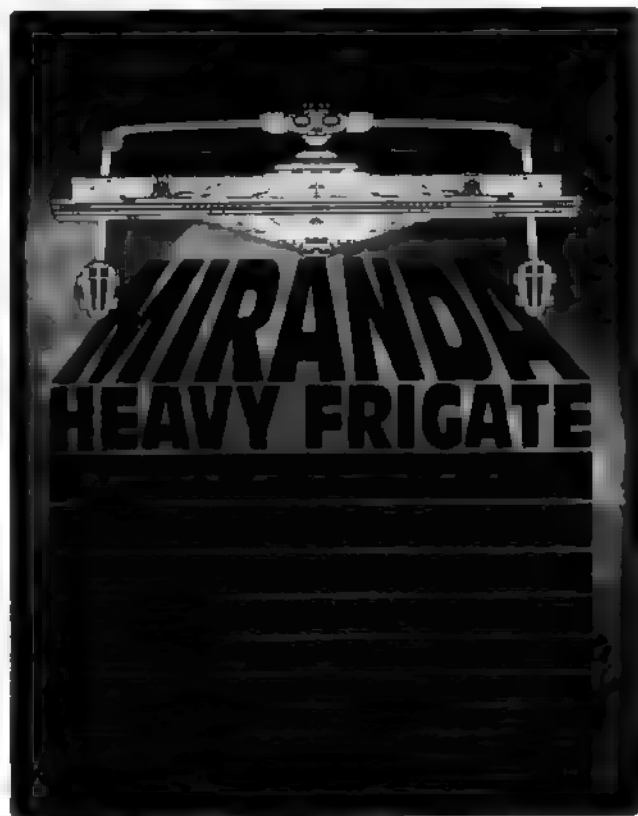
## General Information

**Specific Role:** After much success with the standard Frigate design, Starfleet decided to create a heavier version with increased effectiveness. The Heavy Frigate has a stretched, extended primary hull to make space for dual hangar decks to support and maintain two wings of fighter craft. As with the standard Frigate, the Heavy Frigate has two MegaPhasers located above the engines. The most noticeable modification of the design is the addition of a roll bar used to support the photon torpedo weapons pod. The photon torpedo pod gives the vessel both forward and rear attack angles.

**Physical Description:** The Frigate incorporates an (PHE147/F-M1) extended primary hull equipped with heavy weapons, shielding, and ECM/ECCM devices; as well as a (BS10/F-T1) bridge which contains a larger weapons station. Mounted on the underside of the primary hull is the integrated (SM49/6J) main sensor array and (DN4/1-G) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/J-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-IR) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on either side of the impulse engines, in the rear of the primary hull. The vessels' warp fields are generated by two (SW52/1-5RO) warp nacelles attached to the primary hull by (DU/25-6F) support pylons. Within the primary hull is the (M30/4-2Z) intermix chamber and (AM8/36-4T) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Above the primary hull extension mounted port and starboard are two (MP2/15-2G) MegaPhasers. Above the primary hull and supported by the (DU/52-12W) roll bar is a (PB4/50-10E) photon torpedo pod. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

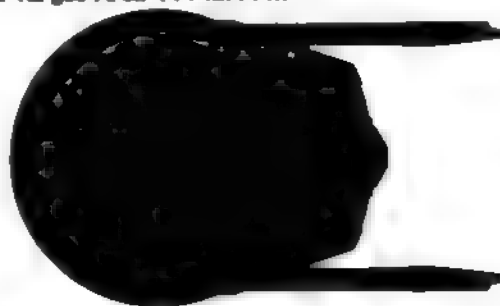
For additional detail refer to Datasheet MV-19

## Class Emblem



## Ship Silhouettes

Total Target Area 23439.32 m<sup>2</sup>  
Average Target Area 11149.44 m<sup>2</sup>



Top Silhouette  
Area 21944.55 m<sup>2</sup>



Port Silhouette  
Area 900345 m<sup>2</sup>

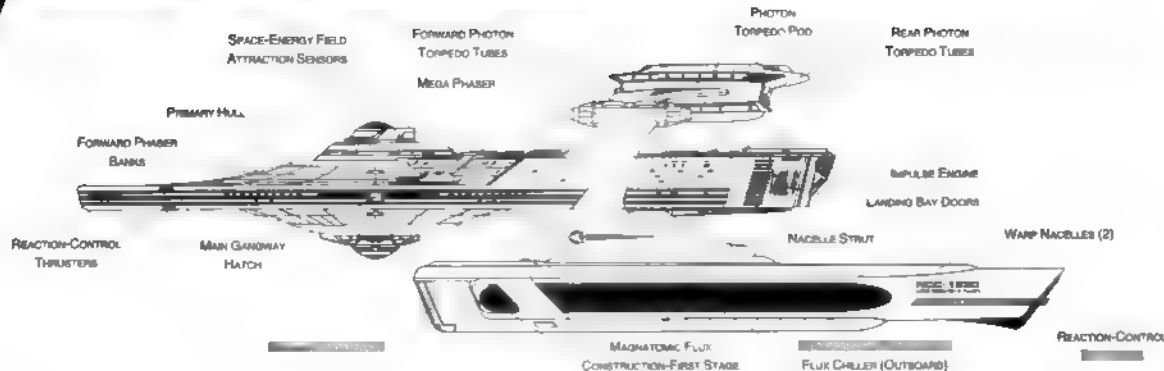


Front Silhouette  
Area 5486.32 m<sup>2</sup>

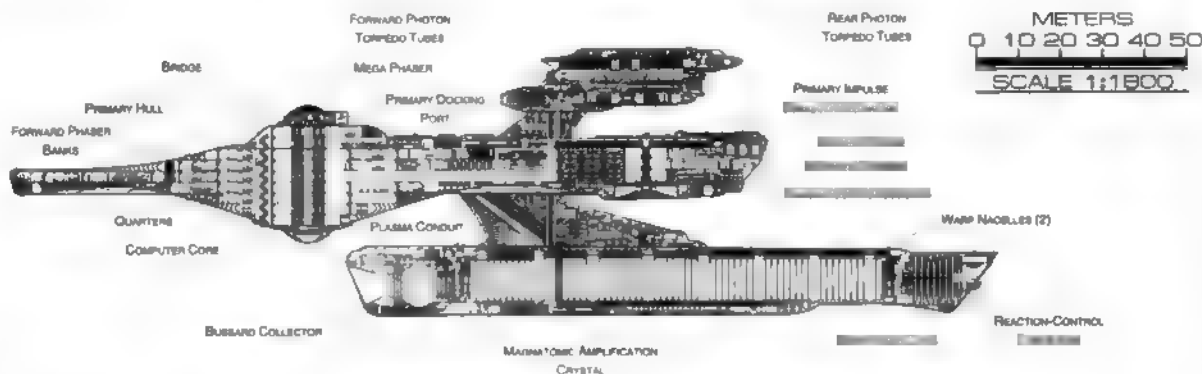


# HEAVY FRIGATE

MIRANDA CLASS



## PORT PROFILE



## CROSS SECTION

# Statistics

**Classification:** Heavy Frigate

**Category:** Frigate

**Class:** ~~Unknown~~

**Type:** Class 1

**Model:** MK-XIVa

**Naval Construction Contract:** 1830

**Number Proposed:** 60

**Number Constructed:** 29

**Number In Service:** 29

**Number Lost:** 0

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 234.74 m

Width: 141.72 m

Height: 63.64 m

**Primary Hull Dimensions (Meters)**

Length: 180.04 m

Width: 141.72 m

Height: 32.94 m

**Secondary Hull Dimensions (Meters)**

Length: N/A

Width: N/A

Height: N/A

**Warp Unit Dimensions (Meters)**

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

**Displacement (Metric Tons)**

Light: 231678 mt

Standard: 249217 mt

Full Load: 277089 mt

**Impulse:**

**Impulse Units:** Dual Unit (IP188E/5-IR)

**Impulse Engine Output:**  $7.8 \times 10^{13}$  W

**Impulse Power Index:** 0.80

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.251 sec.

0.25-0.50 Impulse: 0.377 sec.

0.50-0.75 Impulse: 0.503 sec.

0.75-Full Impulse: 0.628 sec.

**Warp Units:** 2 Nacelle Units (SW52/1-5RC)

**Warp Engine Output:**  $1.2 \times 10^{18}$  W

**Warp Power Index:** 0.80

**Optimum Speed:** 4

**Max. Safe Cruising:** 6.2

**Emergency Speed:** 8.4

**Max. Speed:** 9.2

**Destructive Speed:** 9.3

**Acceleration Power:** 3

**Warp Times:**

Warp 1 - Warp 2: 0.251 sec

Warp 2 - Warp 3: 0.402 sec

Warp 3 - Warp 4: 1.152 sec

Warp 4 - Warp 5: 2.186 sec

Warp 5 - Warp 6: 2.337 sec

Warp 6 - Warp 7: 3.242 sec

Warp 7 - Warp 8: 3.242 sec

Warp 8 - Warp 9: 4.637 sec

Warp 9 - Warp 9.5: 10.303 sec

Warp 9.5 - Warp 9.75: 11.937 sec

Warp 9.75 - Warp 9.9: 24.753 sec

**Duration (Years)**

Standard: 4 Years

**Std. Ships Complement:** 448

**Crew (Ensign Grade):** 330

**Troops:** 50

**Passengers:** 35

**Emergency condition:** + 550

**Medical Facilities:**

**Doctors:** 4

**Medical Staff:** 9

**Operating Rooms:** 3

**Beds:** 21

**Laboratories:** 8

**Transporters Total:** 12

1 Person: 0

2 Person: 0

6 Person: 4

12 Person: 0

22 Person: 4

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 0

Super Cargo: 0

**Brigs:** 28

**Replicators:** 19

**TraCTOR Beams:** 1

**Tow Capacity:**  $3.01 \times 10^8$  mt

**Max Range:**  $8.4 \times 10^4$  km

**Cargo Specifications:**

**Standard Cargo Units:** 410

**Cargo Capacity:** 20500 mt

**Shuttlecraft Specifications:**

**Docking Ports:** 5

**Shuttlecraft Bays Total:** 2

**Small Bay:** 0

**Medium Bay:** 2

**Large Bay:** 0

**Super Bay:** 0

**Shuttlecraft Standard:** 73

**Warp Shuttle:** 1

**Tactical Shuttle:** 1

**Aquatic Shuttle:** 2

**Light Shuttle:** 2

**Heavy Shuttle:** 2

**Cargo Shuttle:** 2

**Light Fighter:** 10

**Fighter:** 10

**Heavy Fighter:** 8

**Lifeboats:** 51

**Turbolift (8 person):** 31

**Lifeboat (10 person):** 14

**Lifeboat (20 person):** 6

**Lifeboat (30 person):** 0

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 1.16

**Stellar Survey:** 0.96

**Short Range:** 1.36

**Long Range:** 1.13

**Navigation:** 1.36

**Special:** 1.93

**Computers:** 2

**Type:** Daystrom Duetronic 1-IIIg

**Type:** Daystrom Duetronic 1-IIIx

**ECM Index:** 1.21

**Shield Rating:**

**Holdoff Power:**  $1.58 \times 10^{12}$  W

**Refresh Rate:**  $4.63 \times 10^{11}$  W

**Breakdown Rate:**  $5.43 \times 10^{11}$  W

**Shield Dimensions (Meters)**

Length: 352.1 m

Width: 212.8 m

Height: 95.5 m

**Weapons:**

**Phaser Power Index:** 0.99

**Photon Power Index:** 3.18

**Vessel Power Index:** 2.09

**Weapon Placement:**

**Beam (Phasers) Total:** 6 banks 2 each

**Output:**  $5 \times 10^{11}$  W  $2.5 \times 10^{11}$  W

**Range:**  $2.5 \times 10^6$  km

**Rate of Fire:** 30 ppm/Cont.

**Forward Banks:** 2

**Rear Banks:** 0

**Port Banks:** 2

**Starboard Banks:** 2

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 2

**Output:**  $2.5 \times 10^{12}$  W  $1.3 \times 10^{12}$  W

**Range:**  $1 \times 10^6$  km

**Rate of Fire:** 15 ppm

**Forward/Rear Banks:** 2

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** 4 Bays

**Range:**  $2 \times 10^6$  km

**Output:** 10-50 MT

**Rate of Fire:** 10 spm

**Forward Bay:** 1

**Rear Bay:** 1

**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

**Lower Bay:** 0

FEDERATION VESSEL





STARFLEET REFERENCE MANUAL





# HEAVY FRIGATE

## Ship Names

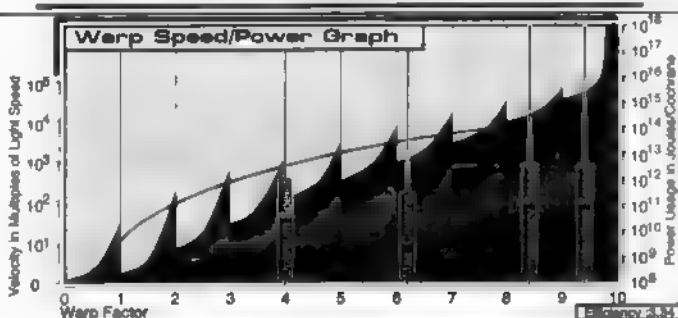
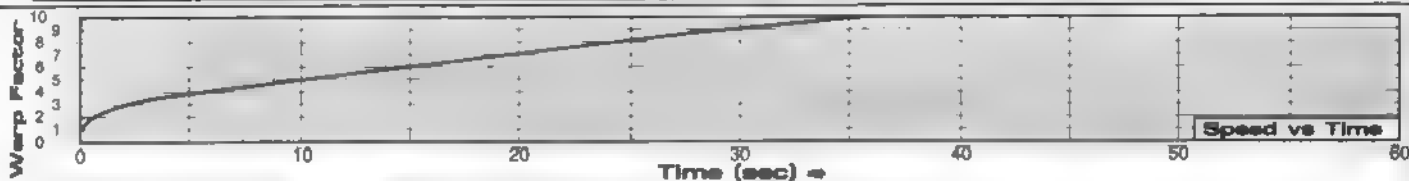
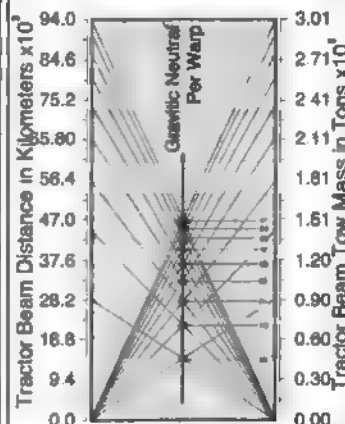
THE FOLLOWING SHIPS OF THE MK-XIV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2258.10

ARENDELE •NCC-1851	KLINGER •NCC-1831	SUICHICKY •NCC-1873***
ARMANTHA •NCC-1875***	KYNGOR •NCC-1843	TIAN NAN MEN •NCC-21382
AVENGER •NCC-1860	KOWALCYK •NCC-1886***	TONINI •NCC-1866***
BANE •NCC-1889***	KROMIS •NCC-1846	TRACY •NCC-1881***
BIANKOWSKI •NCC-1870***	LANTREE •NCC-1837	TRZECIAK •NCC-1857
BRITAIN •NCC-21186	LEAMON •NCC-1854	TYGART •NCC-1842
CARMINE •NCC-1848	MAGNOLIA •NCC-1850	URBANOWICZ •NCC-1871***
CARROW •NCC-1879***	MCCAFFERTY •NCC-1863***	WALLACE •NCC-1855
CAVENDER •NCC-1867***	MEHTA •NCC-1874***	WALTON •NCC-1844
CRUMPTON •NCC-1863***	MIRANDA •NCC-1830*	WYNDELL •NCC-1840
DANNER •NCC-1885***	MOUNDS •NCC-1858	XIQUES •NCC-1839
DOWLING •NCC-1845	MUDGETT •NCC-1833	YOTHER •NCC-1882
ERALLINGS •NCC-1872***	NOEUVILLE •NCC-1866***	ZABRISKIE •NCC-1838
FUNSTON •NCC-1832	PASCEOE •NCC-1888***	ZETHER •NCC-1852
GADLAGE •NCC-1835	PATNAIK •NCC-1885***	
GRICE •NCC-1858	PETRA •NCC-1836	
HAIRSTON •NCC-1853	RELIANT •NCC-1884**	
HANNOVER •NCC-1841	REMBERT •NCC-1859***	
HARMON •NCC-1862***	ROMANT •NCC-1880***	
HODGINS •NCC-1877***	SARATOGA •NCC-1867	
JOVINO •NCC-1876***	SARATOGA(II) •NCC-31911**	
JOLLIFF •NCC-1866**	SMYTHE •NCC-1847	
JUSTINIAN •NCC-1834	SOMMERLAND •NCC-1890***	
KANG •NCC-1878***	SPRADLIN •NCC-1881***	
KANTOR •NCC-1849***	STEELMAN •NCC-1884***	

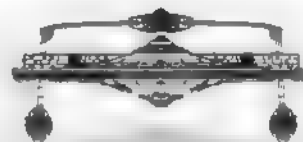
\*CLASS SHIP. \*\*LOST IN THE LINE OF DUTY. \*\*\*PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

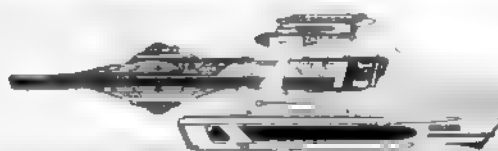
Primary Tractor Beam Load Calculator



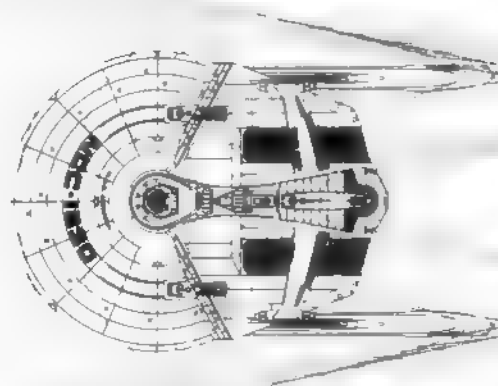
Field Length 458.15m  
Field Width 201.45m  
Field Height 90.08m



Front Warp Field Profile  
Cross Section Area 14455.19 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 30044.41 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 59411.95 m<sup>2</sup>

# STRATEGIC FRIGATE

## General Information



**Specific Role:** After much success with the Heavy Frigate design, Starfleet decided to create a version to increase the strategic effectiveness of the frigate design. The Strategic Frigate shares the stretched, extended primary hull of the Heavy Frigate to make space for dual hangar decks to support and maintain two wings of fighter craft. The Strategic Frigate has two large sensor arrays located to either side of the primary hull. The sensor arrays are highly sensitive, long range sensors designed to gather strategic data for the fleet.

**Physical Description:** The Frigate incorporates an (PHE147/Y-M1) extended primary hull equipped with heavy weapons, shielding, and ECM/ECCM devices; as well as a (BS10/G-T1) bridge which contains a larger weapons station. Mounted on the underside of the primary hull is the integrated (SM49/6E) main sensor array and (DN4/1-F) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2B) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/J-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-IT) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on either side of the impulse engines, in the rear of the primary hull. The vessels's warp fields are generated by two (SW52/1-5RC) warp nacelles attached to the primary hull by (DU/25-6D) support pylons. Within the primary hull is the (M30/4 2A) intermix chamber and (AM8/36-4D) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Located to either side of the primary hull are the two (SA45/1-24T) sensor arrays. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

For additional detail refer to Datasheet MV-21

### Class Emblem



### Ship Silhouettes

Total Target Area 31384.88 m<sup>2</sup>  
Average Target Area 10461.63 m<sup>2</sup>



Top Silhouette  
Area 23108.44 m<sup>2</sup>



Port Silhouette  
Area 5342.40 m<sup>2</sup>

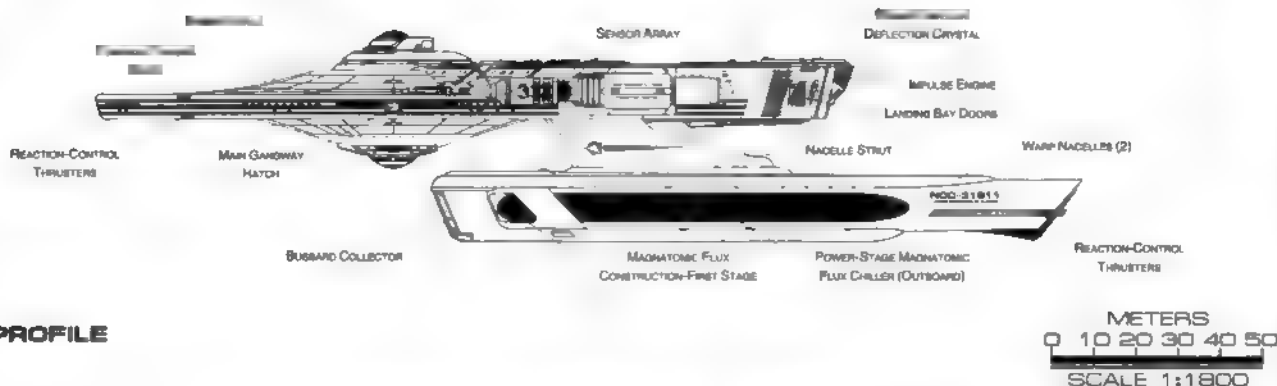


Front Silhouette  
Area 2813.08 m<sup>2</sup>

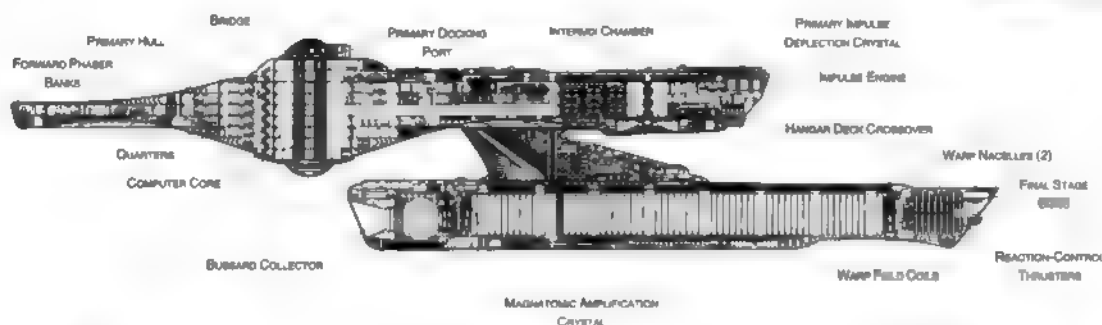


# STRATEGIC FRIGATE

SARATOGA CLASS



PORT PROFILE



CROSS SECTION

## Statistics

**Classification:** Strategic Frigate

**Category:** Frigate

**Class:** Saratoga

**Type:** Class 1

**Model:** MK XXXXa

**Naval Construction Contract:** 31911

**Number Proposed:** 42

**Number Constructed:** 41

**Number In Service:** 40

**Number Lost:** 1

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 234.74 m

Width: 163.05 m

Height: 50.13 m

**Primary Hull Dimensions (Meters)**

Length: 190.04 m

Width: 141.72 m

Height: 32.94 m

**Secondary Hull Dimensions (Meters)**

Length: N/A

Width: N/A

Height: N/A

**Warp Unit Dimensions (Meters)**

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

**Displacement (Metric Tons)**

Light: 234766 mt

Standard: 280783 mt

Full Load: 280783 mt

**Performance:**

**Impulse Units:** Dual Unit (IP186E/5-FT)

**Impulse Engine Output:**  $7.8 \times 10^{13}$  W

**Impulse Power Index:** 0.79

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.255 sec

0.25-0.50 Impulse: 0.382 sec

0.50-0.75 Impulse: 0.509 sec

0.75-Full Impulse: 0.637 sec

**Warp Units:** 2 Nacelle Units (SW52/1-SRC)

**Warp Engine Output:**  $1.2 \times 10^{15}$  W

**Warp Power Index:** 0.79

**Optimum Speed:** 4

**Max. Safe Cruising:** 8.2

**Emergency Speed:** 8.4

**Max. Speed:** 9.2

**Destructive Speed:** 9.3

**Acceleration Power:** 3

**Acceleration Times:**

Warp 1 - Warp 2: 0.256 sec.

Warp 2 - Warp 3: 0.407 sec.

Warp 3 - Warp 4: 1.541 sec.

Warp 4 - Warp 5: 2.215 sec.

Warp 5 - Warp 6: 2.366 sec.

Warp 6 - Warp 7: 2.559 sec.

Warp 7 - Warp 8: 3.285 sec.

Warp 8 - Warp 9: 4.696 sec.

Warp 9 - Warp 9.5: 10.441 sec.

Warp 9.5 - Warp 9.75: 12.096 sec.

Warp 9.75 - Warp 9.9: 25.083 sec.

**Duration (Years)**

Standard: 4 Years

Maximum: 16 Years

**Std. Ship Complement:** 640

Officers: 100

Crew (Ensign Grade): 490

Troops: 50

Passengers: 58

**Emergency condition:** + 824

**Medical Facilities:**

Doctors: 4

**Medical Staff:** 9

**Operating Rooms:** 3

Beds: 21

**Laboratories:** 8

**Transporters Total:** 16

1 Person: 0

2 Person: 0

6 Person: 6

12 Person: 0

22 Person: 6

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 0

Super Cargo: 0

**Brigs:** 29

**Replicators:** 19

**TraCTOR Beams:** 1

**Tow Capacity:**  $3.01 \times 10^6$  mt

**Max Range:**  $9.4 \times 10^4$  km

**Cargo Specification:**

**Standard Cargo Units:** 410

**Cargo Capacity:** 20500 mt

**Shuttlecraft Specifications:**

**Docking Ports:** 5

**Shuttlecraft Bays Total:** 2

**Small Bay:** 0

**Medium Bay:** 2

**Large Bay:** 0

**Super Bay:** 0

**Shuttlecraft Standard:** 73

**Work Boats:** 4

**Aquatic Shuttle:** 2

**Light Shuttle:** 2

**Standard Shuttle:** 2

**Heavy Shuttle:** 2

**Cargo Shuttle:** 2

**Assault Shuttle:** 18

**Killer Boats:** 6

**Light Fighter:** 10

**Fighter:** 10

**Heavy Fighter:** 6

**Lifeboats:** 63

**Turbolift (8 person):** 31

**Lifeboat (10 person):** 22

**Lifeboat (20 person):** 9

**Lifeboat (30 person):** 1

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 1.16

**Stellar Survey:** 0.96

**Short Range:** 1.36

**Long Range:** 1.13

**Navigation:** 1.36

**Special:** 1.93

**Computers:** 2

**Type:** Daystrom Duetronic 1-III-g

**Type:** Daystrom Duetronic 1-III-x

**ECM Index:** 1.21

**Shield Rating:**

**Shield Index:** 0.38

**Holdoff Power:**  $1.57 \times 10^{12}$  W

**Refresh Rate:**  $4.47 \times 10^{11}$  W

**Breakdown Rate:**  $5.38 \times 10^{11}$  W

**Shield Dimensions (Meters)**

Length: 352.1 m

Width: 244.6 m

Height: 75.2 m

**Weapons:**

**Phaser Power Index:** 0.52

**Photon Power Index:** 3.14

**Vessel Power Index:** 1.83

**Weapon Placement:**

**Beam (Phasers) Total:** 6 banks 2 each

**Output:**  $5 \times 10^{11}$  W 2  $5 \times 10^{11}$  W

**Range:**  $2.5 \times 10^5$  km

**Rate of Fire:** 30 ppm/Cont.

**Forward Banks:** 2

**Starboard Banks:** 2

**Port Banks:** 2

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 2

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** 0

**Stock:** N/A

**Range:** N/A

**Output:** N/A

**Rate of Fire:** N/A

**Forward Bay:** 0

**Rear Bay:** 0

**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

**Lower Bay:** 0

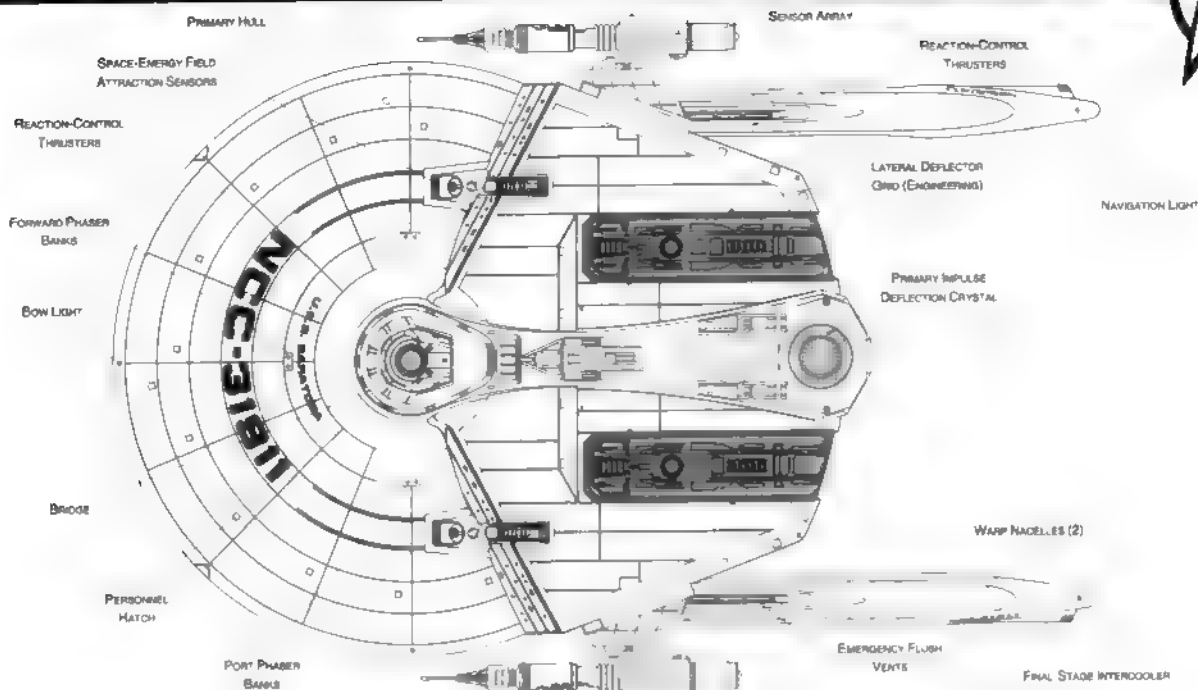
FEDERATION VESSEL

# STRATEGIC FRIGATE

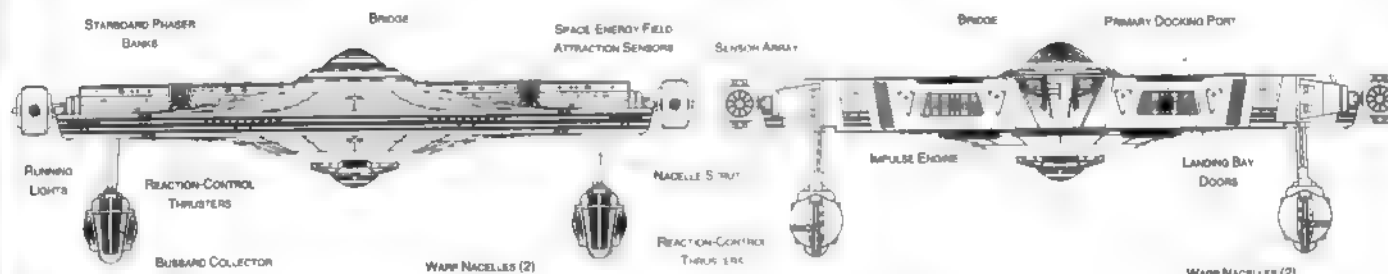


SARATOGA CLASS

FEDERATION VESSEL

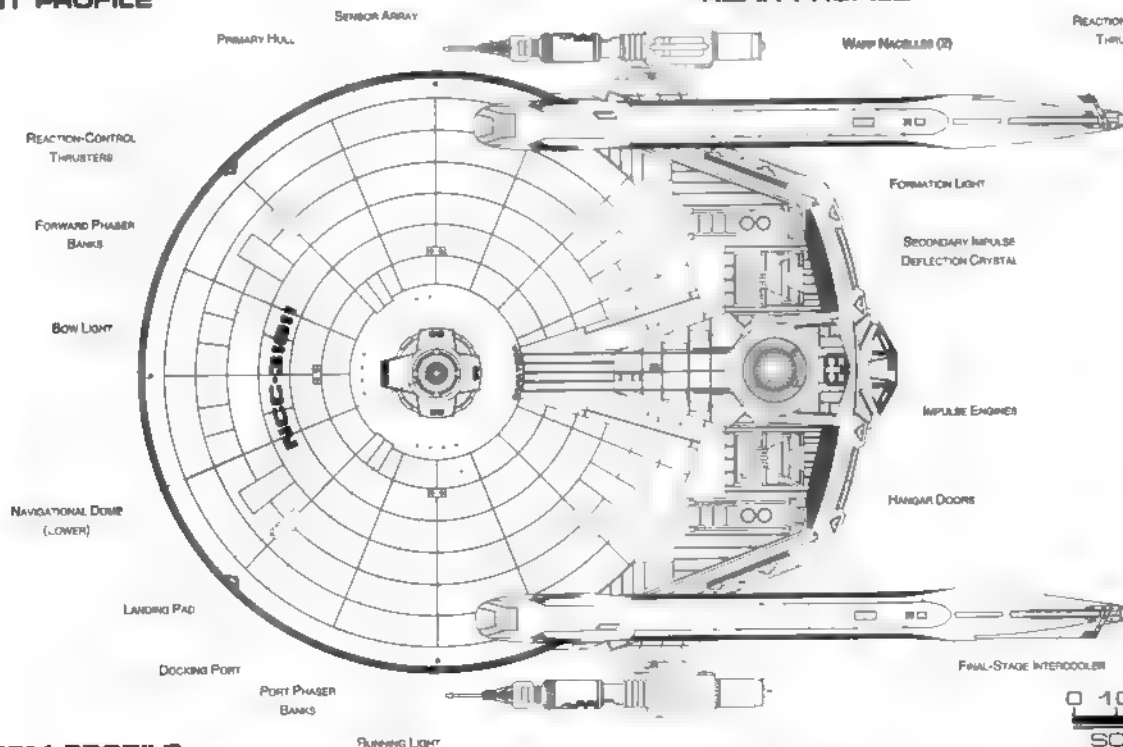


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:1800



# STRATEGIC FRIGATE

## Ship Names

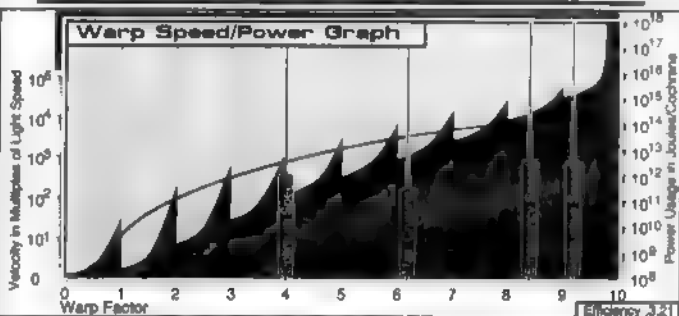
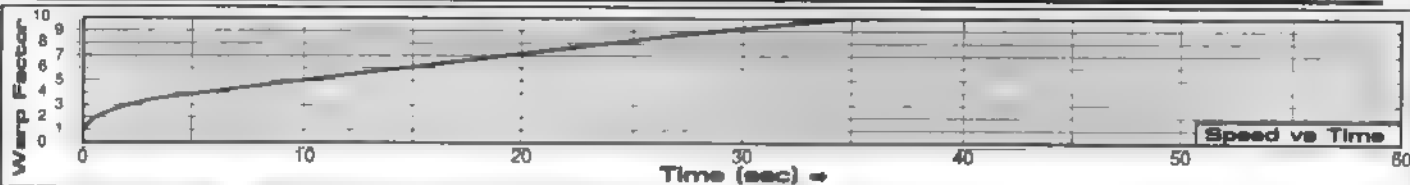
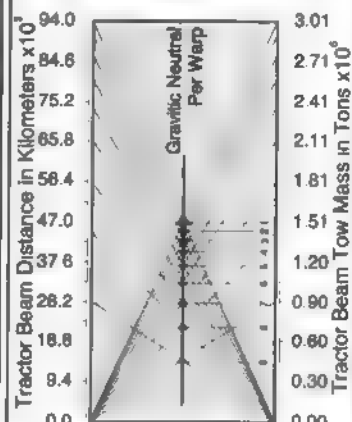
THE FOLLOWING SHIPS OF THE MK-XXXIX CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2289.3

ASAL UTTAR • NCC-31936	NAUTILUS • NCC-31910
BAGHDAD • NCC-31919	NOSTVEG • NCC-31916
BASANTAR • NCC-31934	NOZSECA • NCC-31929
BASRA • NCC-31907	NU CHALCEDONIS • NCC-31901
DELGON-R • NCC-31908	OGOLO • NCC-31935
FALGOR • NCC-31932	POLJANA • NCC-31939
FALLUJAH • NCC-31925	PRENTARES • NCC-31937
FLYING Fortress • NCC-31904	PUSAN • NCC-31927
GAMMA HYDRA • NCC-31928	REBONET • NCC-31911
JEVOL • NCC-31917	SARATOGA • NCC-31905 • ***
KANDAHAR • NCC-31909	SHIRKHAR • NCC-31930
KLAF • NCC-31922	SIDRA • NCC-31933
KONDUZ • NCC-31908	SINBAD IV • NCC-31915
LAHORE • NCC-31942	SLEZ • NCC-31931
LATAKIA • NCC-31938	TOLOUNG • NCC-31921
LASUR FUNOP • NCC-31923	TRIESTE • NCC-31920
LONG TAN • NCC-31918	VUKOVAR • NCC-31940
LONGDON • NCC-31906	
LONGWALA • NCC-31902	
MANARRAM • NCC-31914	
MANILA • NCC-31928	
MINDANAO • NCC-31924	
MOGADISHU • NCC-31913	
NAFKEH • NCC-31912	
NAJAF • NCC-31941	

\*\*\*CLASS SHIP, "LOST IN THE LINE OF DUTY," "PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



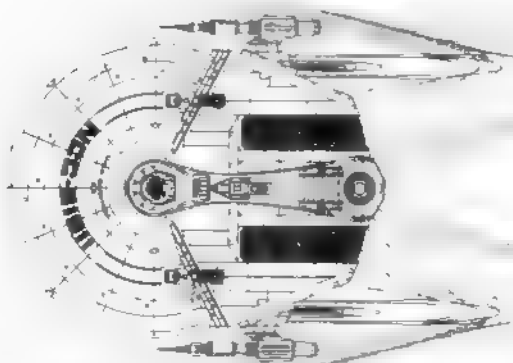
Field Length 469.29m  
Field Width 195.36m  
Field Height 79.13m



Front Warp Field Profile  
Cross Section Area 18314.84 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 28821.01 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 68773.29 m<sup>2</sup>



# ATTACK FRIGATE



## General Information

**Specific Role:** The Attack Frigate is designed for surgical attacks while supporting troop placement in conflicted areas. The Attack Frigate, is designed to increase the effectiveness of the of the Heavy Frigate through the use of Turreted Multi-Phasic Mega Phasers. While Multi-Phasic MegaPhasers are not as powerful as Megaphasers there ability to Phase Shift the spectrum during the pulse allows the beam to be adjusted for maximum penetration.

**Physical Description:** The Attack Frigate incorporates an (PHE147/F-A1) extended primary hull with a weapons platform extension to the rear and a (BS12/F-T7) bridge which contains a larger weapons station and tracking station. The vessel is also equipped with extensive shielding and experimental ECM/ECCM gear. Mounted on the underside of the primary hull is the integrated (SM49/3K) main sensor array and (DNT4/3-V) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30 2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/G-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/3-TD) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on either side of the weapons platform extension, at the rear of the primary hull. The vessels's warp fields are generated by two (SW52/2-5DF) warp nacelles attached to the primary hull by (DU/25-6A) support pylons. Within the primary hull are the (M36/4-2Z) intermix chamber and (AM8/36-4L) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. The Frigate is armed with four (MPPT2/15-2C) Multi-Phasic MegaPhasers. The upper turret is connected by a (DU/75-70T) support pylon and the lower is connected by the (DU/90-90T) support pylon. The port and starboard turrets are connected by (DU/22-19T) support pylons. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

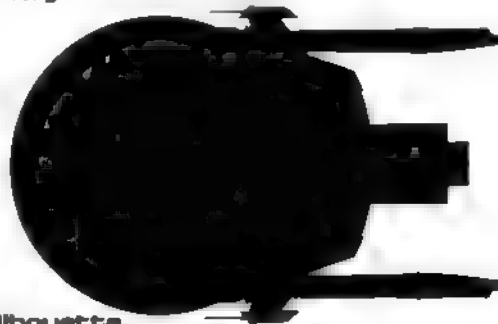
For additional detail refer to Datasheet MV-24

### Class Emblem



### Ship Silhouettes

Total Target Area 34887.23 m<sup>2</sup>  
Average Target Area 1162.41 m<sup>2</sup>



Top Silhouette  
Area 23807.77 m<sup>2</sup>



Port Silhouette  
Area 7921.94 m<sup>2</sup>

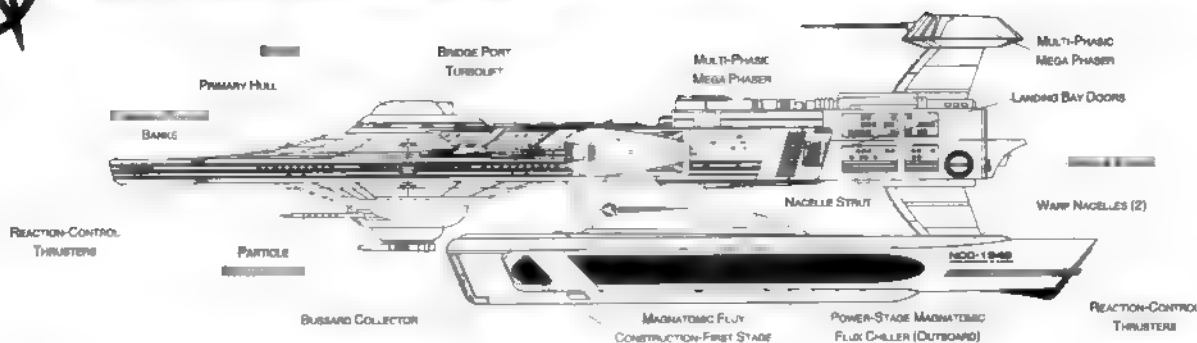


Front Silhouette  
Area 3187.52 m<sup>2</sup>

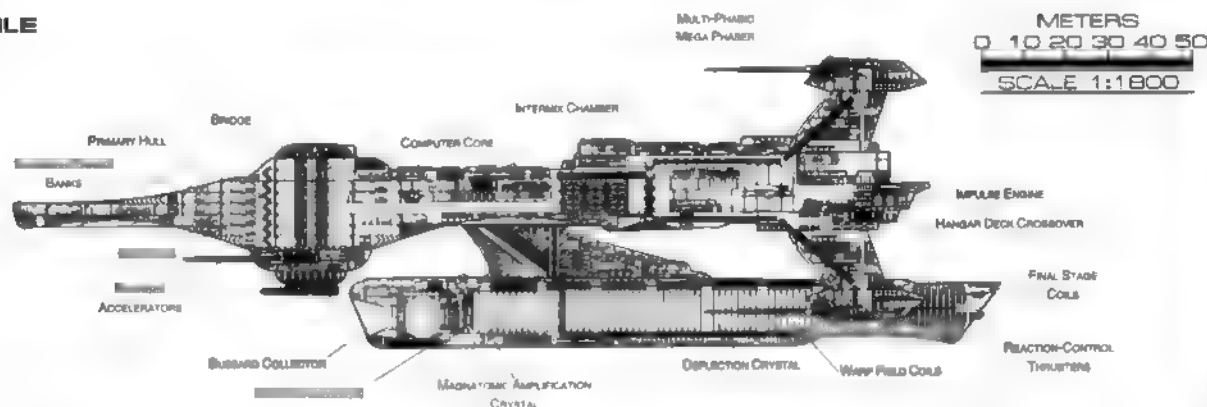


# ATTACK FRIGATE

SOYUZ CLASS



PORT PROFILE



CROSS SECTION

## Statistics

**Classification:** Attack Frigate

**Category:** Frigate

**Class:** Soyuz

**Type:** Class 1

**Model:** MK IIa

**Naval Construction Contract:** 1942

**Number Proposed:** 20

**Number Constructed:** 20

**Number in Service:** 20

**Number Lost:** 1

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 234.74 m

Width: 183.05 m

Height: 68.74 m

**Primary Hull Dimensions (Meters)**

Length: 217.84 m

Width: 141.7 m

Height: 38.12 m

**Secondary Hull Dimensions (Meters)**

Length: N/A

Width: N/A

Height: N/A

**Warp Unit Dimensions (Meters)**

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

**Displacement (Metric Tons)**

Light: 198285 mt

Standard: 212418 mt

Full Load: 237127 mt

**Performance:**

**Impulse Units:** Dual Unit (IP180E/3-TD)

**Impulse Engine Output:**  $7.8 \times 10^{13}$  W

**Impulse Power Index:** 0.93

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.215 sec.

0.25-0.50 Impulse: 0.323 sec.

0.50-0.75 Impulse: 0.43 sec.

0.75-Full Impulse: 0.538 sec.

**Warp Units:** 2 Nacelle Units (SW52/1-SOF)

**Warp Engine Output:**  $1.2 \times 10^{15}$  W

**Warp Power Index:** 0.93

**Optimum Speed:** 4

**Max. Safe Cruising:** 6.18

**Emergency Speed:** 8.35

**Max. Speed:** 9.15

**Destructive Speed:** 9.28

**Acceleration Power:** 3

**Acceleration Times:**

Warp 1 - Warp 2: 0.215 sec.

Warp 2 - Warp 3: 0.344 sec.

Warp 3 - Warp 4: 1.301 sec.

Warp 4 - Warp 5: 1.871 sec.

Warp 5 - Warp 6: 2 sec.

Warp 6 - Warp 7: 2.161 sec.

Warp 7 - Warp 8: 2.774 sec.

Warp 8 - Warp 9: 3.968 sec.

Warp 9 - Warp 9.5: 8.817 sec.

Warp 9.5 - Warp 9.75: 10.215 sec.

Warp 9.75 - Warp 9.9: 21.183 sec.

**Duration (Years)**

Standard: 4 Years

Maximum: 16 Years

**Std. Ships Complement:** 429

**Officers:** 64

**Crew (Ensign Grade):** 315

**Troops:** 50

**Passengers:** 35

**Emergency condition:** + 526

**Medical Facilities:**

**Doctors:** 4

**Medical Staff:** 9

**Operating Rooms:** 3

**Beds:** 21

**Laboratories:** 6

**Transporters Total:** 11

1 Person: 0

2 Person: 0

6 Person: 4

12 Person: 0

22 Person: 4

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 0

Super Cargo: 0

**Brigs:** 24

**Replicators:** 18

**TraCTOR Beams:** 1

**Tow Capacity:**  $2.87 \times 10^8$  mt

**Max Range:**  $9.2 \times 10^4$  km

**Cargo Specification:**

**Standard Cargo Units:** 410

**Cargo Capacity:** 20500 mt

**Shuttlecraft Specifications:**

**Docking Ports:** 5

**Shuttlecraft Bays Total:** 2

**Small Bay:** 0

**Medium Bay:** 2

**Large Bay:** 0

**Super Bay:** 0

**Shuttlecraft Standard:** 70

**Work Bees:** 3

**Travel Pods:** 5

**Aquatic Shuttle:** 2

**Light Shuttle:** 2

**Standard Shuttle:** 2

**Heavy Shuttle:** 2

**Cargo Shuttle:** 2

**Assault Shuttle:** 18

**Killer Bees:** 7

**Light Fighter:** 10

**Fighter:** 10

**Heavy Fighter:** 7

**Lifeboats:** 47

**Turbolift (6 person):** 27

**Lifeboat (10 person):** 14

**Lifeboat (20 person):** 6

**Lifeboat (30 person):** 0

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 0.93

**Stellar Survey:** 0.77

**Short Range:** 1.24

**Long Range:** 1.02

**Navigation:** 1.24

**Special:** 1.25

**Computers:** 2

**Type:** Daystrom Duetronic 1-III-q

**Type:** Daystrom Duetronic 1-II-b

**ECM Index:** 1.21

**Shield Rating:**

**Shield Index:** 0.53

**Holdoff Power:**  $1.86 \times 10^{12}$  W

**Refresh Rate:**  $5.29 \times 10^{11}$  W

**Breakdown Rate:**  $8.35 \times 10^{11}$  W

**Shield Dimensions (Meters)**

Length: 352.1 m

Width: 244.6 m

Height: 103.1 m

**Weapons:**

**Phaser Power Index:** 0.82

**Photon Power Index:** 3.72

**Vessel Power Index:** 2.17

**Weapon Placement:**

**Beam (Phasers) Total:** 6 banks 2 each

**Output:**  $5 \times 10^{11}$  W  $2.5 \times 10^{11}$  W

**Range:**  $2.5 \times 10^6$  km

**Rate of Fire:** 30 ppm/Cont.

**Forward Banks:** 2

**Rear Banks:** 0

**Port Banks:** 2

**Starboard Banks:** 2

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MP MegaPhasers) Total:** 0

**Output:**  $2.0 \times 10^{12}$  W  $1.0 \times 10^{12}$  W

**Range:**  $8.0 \times 10^6$  km

**Rate of Fire:** 15 ppm/Cont.

**Forward/Rear Banks:** 1

**Port/Starboard Banks:** 2

**Upper/Lower Banks:** 1

**Torpedoes (Photon) Total:** 0

**Stock:** 0

**Range:** N/A

**Output:** N/A

**Rate of Fire:** N/A

**Forward Bay:** 0

**Rear Bay:** 0

**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

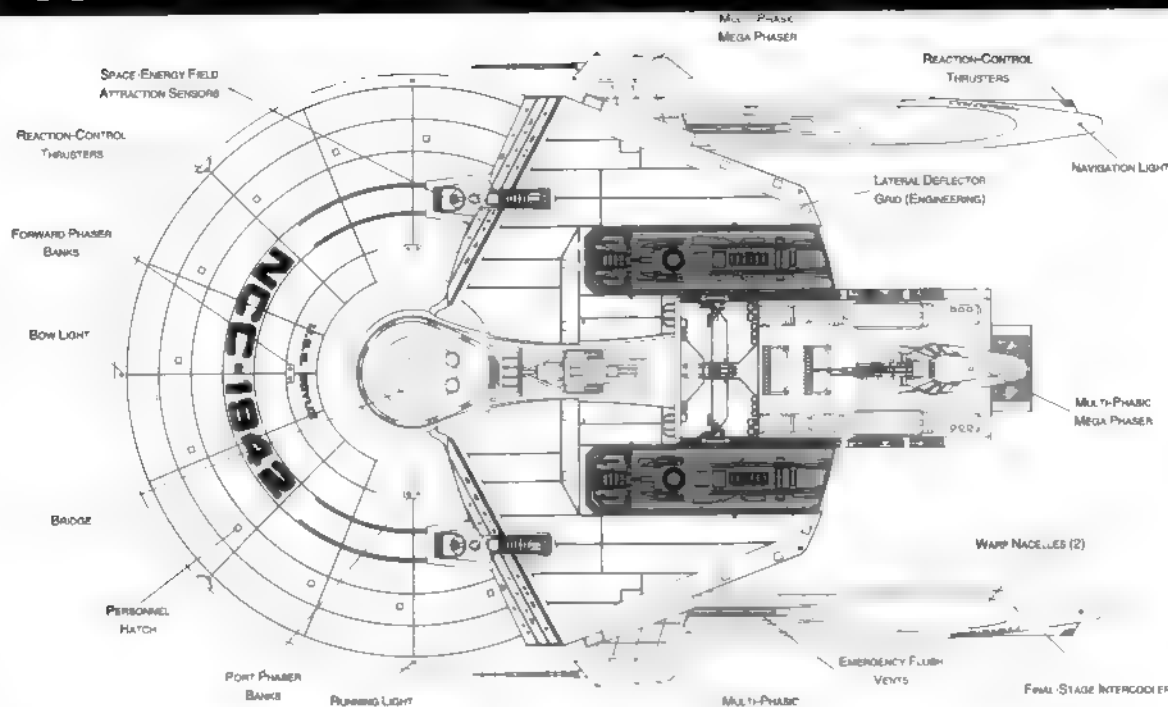
**Lower Bay:** 0

FEDERATION VESSEL

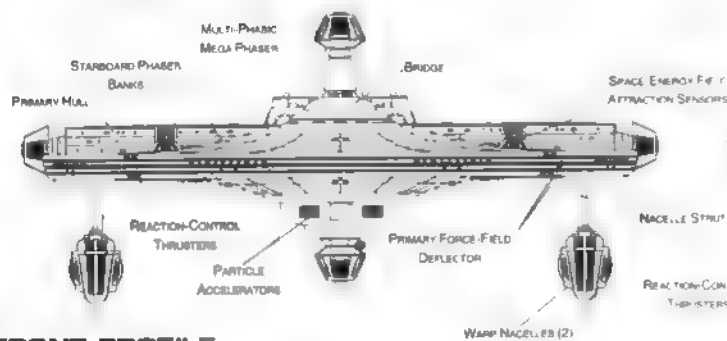
# ATTACK FRIGATE



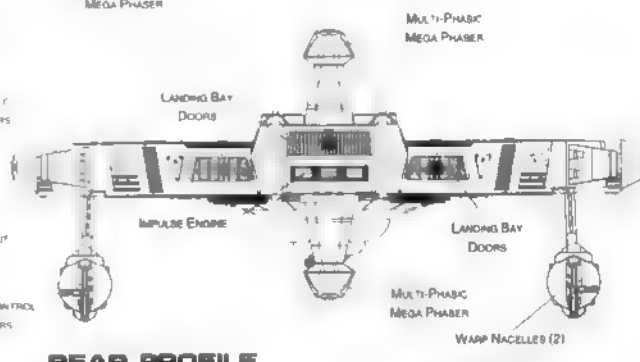
SOYUZ CLASS



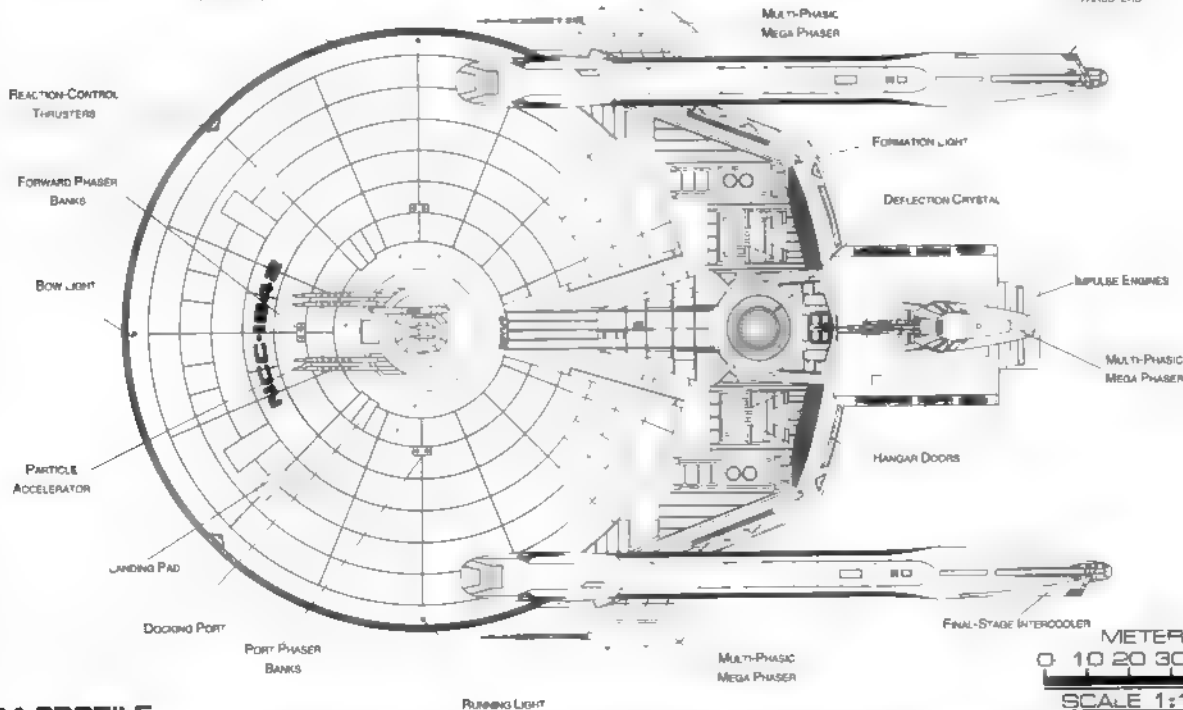
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:1800

FEDERATION VESSEL



# ATTACK FRIGATE

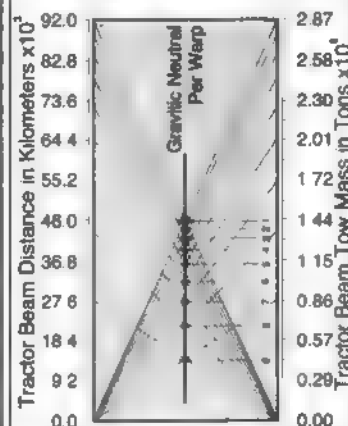
## Ship Names

THE FOLLOWING SHIPS OF THE MK-II<sup>a</sup> CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2267.1

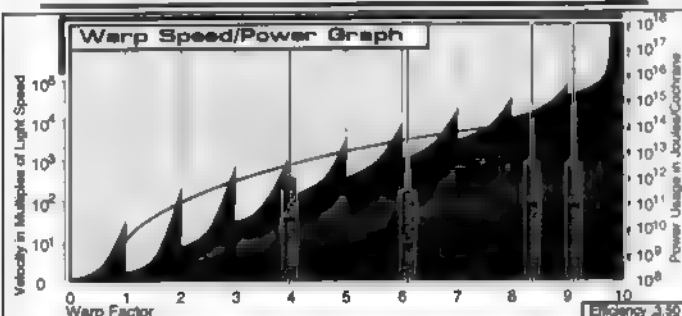
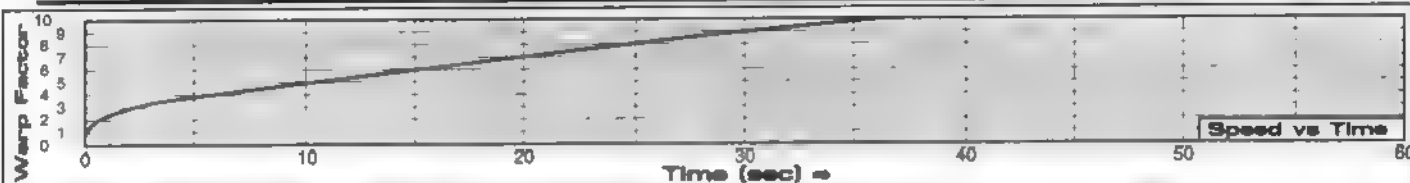
ACREE • NCC-1960  
BOZEMAN • NCC-1941<sup>aa</sup>  
CAVANNAUGH • NCC-1958  
CHINEA • NCC-1952  
DAVIDSON • NCC-1945  
ESTEL • NCC-1944  
FOELLER • NCC-1959  
GRILLIOT • NCC-1961  
HELENA • NCC-1956  
IMARI • NCC-1947  
KATSINIS • NCC-1955  
MOXEY • NCC-1953  
NOEVER • NCC-1949  
PANDORA • NCC-1957  
REFIEUNA • NCC-1948  
SLOAN • NCC-1951  
SONNIER • NCC-1960  
SOYJZ • NCC-1942<sup>a</sup>  
TAHERI • NCC-1946  
TALBOT • NCC-1954  
URSALINE • NCC-1943

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



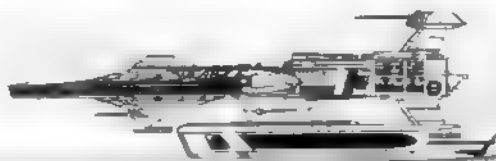
\*CLASS SHIP. \*LOST IN THE LINE OF DUTY. \*PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."



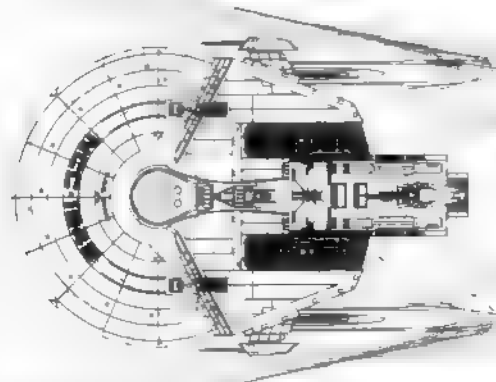
Field Length 490.54m  
Field Width 202.20m  
Field Height 88.33m



Front Warp Field Profile  
Cross Section Area 13831.08 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 30042.52 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 89410.48 m<sup>2</sup>

# MEDICAL FRIGATE



## General Information

**Specific Role:** The Medical Frigate is a mobile medical facility providing support and emergency medical care throughout the Federation. The frigate is equipped with extensive laboratories and medical facilities for on-site treatment of patients.

**Physical Description:** The extended (PHE234/M-E2) primary hull is outfitted with extensive medical facilities and the (BS9/M E6) bridge incorporates a larger tracking and surveillance station. On the lower part of the primary hull is the (SM49/3Y) main sensor array and (DN4/3-J) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are the (DN2/G-4.2) navigational deflectors used to assist the navigational shields in deflecting oncoming debris. Two medium hangar decks are installed, one on either side of the impulse engines, in the rear of the hull extension. To the rear of the primary hull are (IP186E/5-QD) dual impulse units which are used for auxiliary power and sub-warp propulsion. The frigate's warp fields are generated by two (SW52/1-5KY) warp nacelles attached to the underside of the primary hull by (DU/25-6S) support pylons. Inside the primary hull are the (M28/4-2B) intermix chamber and (AM8/36 4E) matter/antimatter storage tanks. The storage tanks are located below the impulse engines for emergency jettisoning. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

## Class Emblem



## Ship Silhouettes

Total Target Area 39234.24 m<sup>2</sup>



Top Silhouette

Area 29318.52 m<sup>2</sup>



Port Silhouette

Area 8917.00 m<sup>2</sup>



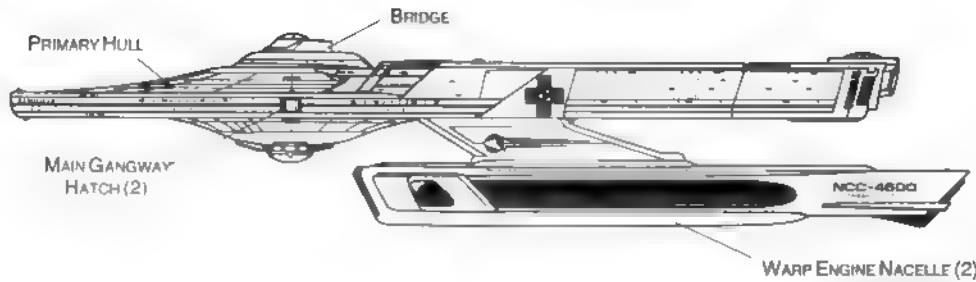
Front Silhouette

Area 2998.72 m<sup>2</sup>

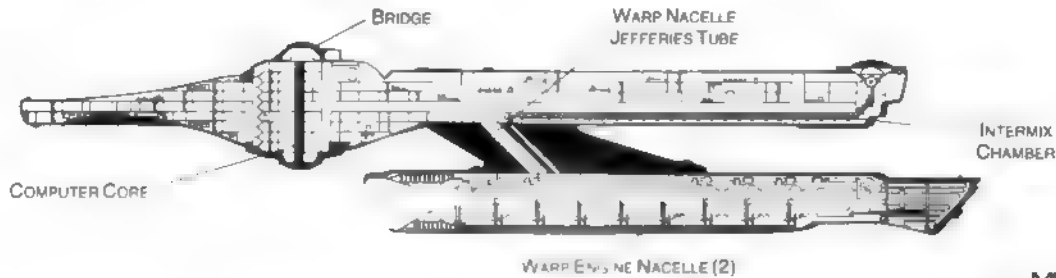


# MEDICAL FRIGATE

HIPPOCRATES CLASS



PORT PROFILE



METERS  
0 10 20 30 40 50  
SCALE 1:2000

CROSS SECTION

## Statistics

**Classification:** Medical Frigate

**Category:** Medical Ship

**Class:** Hippocrates

**Type:** Class 2

**Model:** MK-11

**Naval Construction Contract:** 4600

**Number Proposed:** 74

**Number Constructed:** 74

**Number in Service:** 72

**Number Lost:** 2

**Overall Dimensions (Meters)**

Length: 241.38m

Width: 141.72m

Height: 48.53m

**Primary Hull Dimensions (Meters)**

Length: 222.52m

Width: 141.72m

Height: 32.94m

**Secondary Hull Dimensions (Meters)**

Length: N/A

Width: N/A

Height: N/A

**Warp Unit Dimensions (Meters)**

Length: 154.81m

Width: 12.63m

Height: 18.32m

**Displacement (Metric Tons)**

Light: 206,124mt

Standard: 220,838mt

Full Load: 246,526mt

**Performance:**

**Impulse Units:** Dual Unit (IP186/E-QD)

**Impulse Engine Output:**  $7.8 \times 10^{13}$  W

**Impulse Power Index:** 0.89

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.224 sec

0.25-0.50 Impulse: 0.335 sec

0.50-0.75 Impulse: 0.447 sec

0.75-Full Impulse: 0.559 sec

**Warp Units:** 2 Nacelle Units (SW52/1 SKY)

**Warp Engine Output:**  $1.2 \times 10^{15}$  W

**Warp Power Index:** 0.89

**Optimum Speed:** Warp 4

**Max. Safe Cruising:** Warp 6.2

**Emergency Speed:** Warp 8.4

**Max. Speed:** Warp 9.2

**Destructive Speed:** Warp 9.3

**Acceleration Power:** 3.0

**Acceleration Times:**

Warp 1 - Warp 2: 0.224 sec

Warp 2 - Warp 3: 0.358 sec

Warp 3 - Warp 4: 1.353 sec

Warp 4 - Warp 5: 1.945 sec

Warp 5 - Warp 6: 2.079 sec

Warp 6 - Warp 7: 2.247 sec

Warp 7 - Warp 8: 2.884 sec

Warp 8 - Warp 9: 4.125 sec

Warp 9 - Warp 9.5: 9.167 sec

Warp 9.5 - Warp 9.75: 10.620 sec

Warp 9.75 - Warp 9.9: 22.023 sec

**Standard:** 5 Years

**Maximum:** 20 Years

**Std. Ships Complement:** 655

Officers: 108

Crew (Ensign Grade): 527

Troops: 20

Passengers: 56

Emergency condition: +878

**Medical Facilities:**

Doctors: 50

Nurses: 263

Operating Rooms: 42

Beds: 1000

**Laboratories:** 10

**Transporters Total:** 21

1 Person: 0

2 Person: 0

6 Person: 9

12 Person: 0

22 Person: 9

Small Cargo: 2

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

**Brigs:** 17

**Replicators:** 17

**Tractor Beams:** 1

**Tow Capacity:**  $2.82 \times 10^6$  mt

**Max Range:**  $7.81 \times 10^6$  km

**Cargo Specification:**

Standard Cargo Units: 306

Cargo Capacity: 15,300mt

**Shuttlecraft Specifications:**

Docking Ports: 3

Shuttlecraft Bays Total: 2

Small Bay: 0

Medium Bay: 2

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 28

Work Bees: 2

Travel Pods: 1

Aquatic Shuttle: 1

Light Shuttle: 3

Standard Shuttle: 5

Medical Shuttle: 15

Heavy Shuttle: 0

Cargo Shuttle: 1

Assault Shuttle: 0

Killer Bees: 0

Fighter: 0

Lifeboats: 61

Turbolift (8 person): 23

Lifeboat (10 person): 26

Lifeboat (20 person): 11

Lifeboat (30 person): 1

**Cloaking Devices:** 0

**Sensor Index Values:**

Planetary Survey: 0.3804

Stellar Survey: 1.0410

Short Range: 0.2870

Long Range: 0.7854

Navigation: 0.3009

Special: 0.4764

**Computers:** 2

Type: Daystrom Duotronic III b

Type: Daystrom Duotronic II a

**ECM Index:** 0.94

**Shield Rating:**

Shield Index: 0.48

Holdoff Power:  $1.74 \times 10^{12}$  W

Refresh Rate:  $4.94 \times 10^{11}$  W

Breakdown Rate:  $5.92 \times 10^{11}$  W

Shield Dimensions (Meters)

Length: 304.91m

Width: 177.01m

Height: 61.31m

**Phaser Power Index:** 0.59

**Photon Power Index:** 0.00

**Vessel Power Index:** 0.30

**Weapon Placement:**

Beam (Phasers) Total: 6 banks 2 each

Output:  $5.0 \times 10^{11}$  W /  $2.5 \times 10^{11}$  W

Range:  $2.5 \times 10^5$  km

Rate of Fire: 30 ppm / Cont

Forward Banks: 2

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

**Beam (MegaPhasers) Total:** 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

**Torpedoes (Photon) Total:** N/A

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

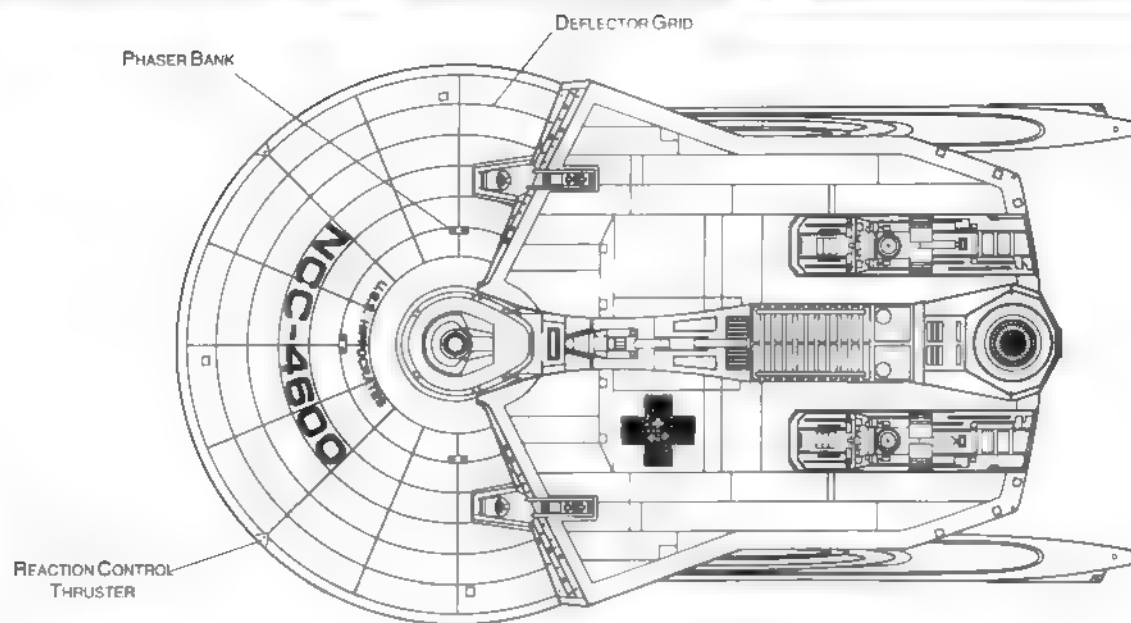
Upper Bay: 0

Lower Bay: 0

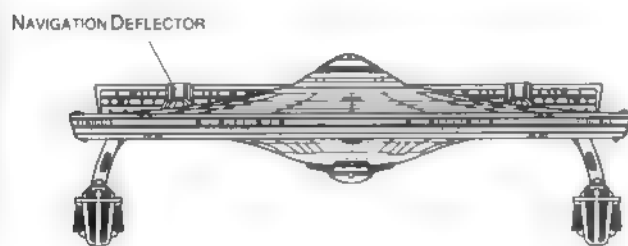
FEDERATION VESSEL



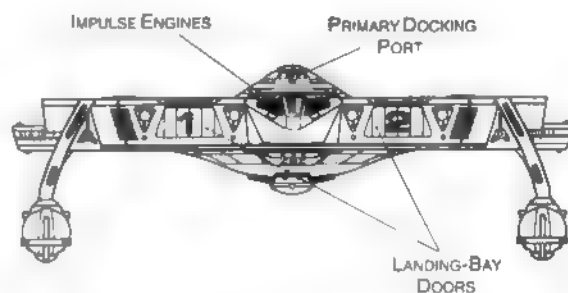
# MEDICAL FRIGATE



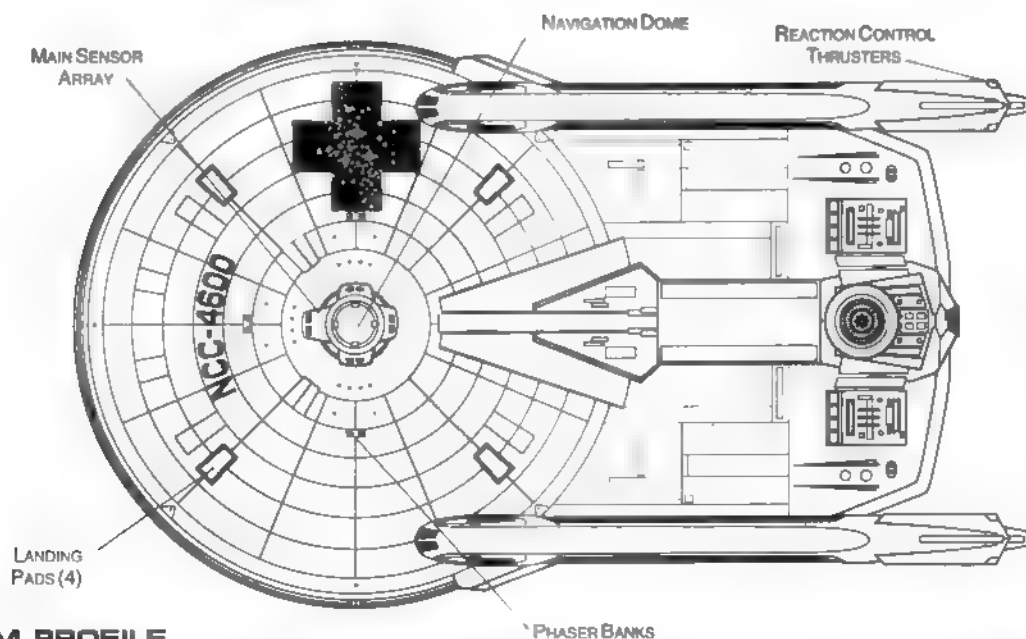
**TOP PROFILE**



**FRONT PROFILE**



**REAR PROFILE**



**BOTTOM PROFILE**

METERS  
0 10 20 30 40 50



# MEDICAL FRIGATE

## Ship Names

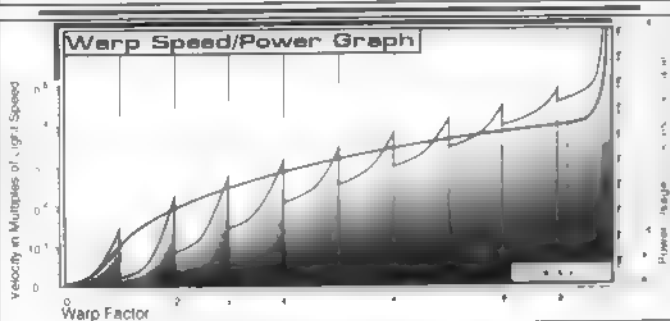
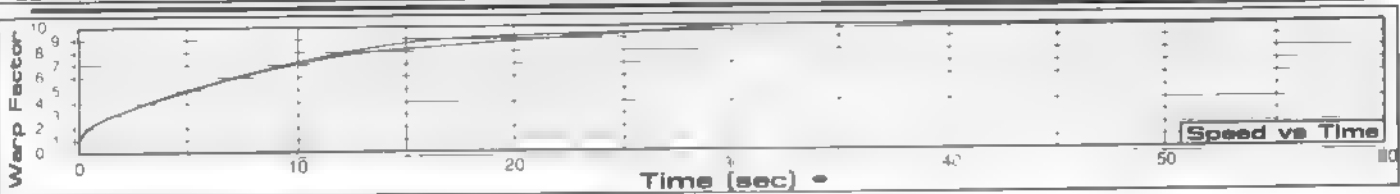
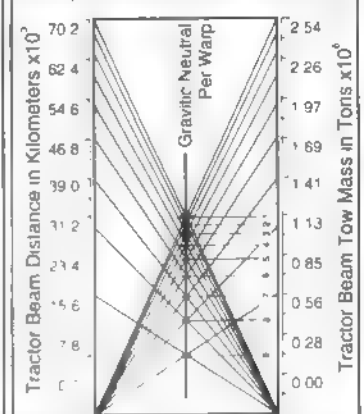
THE FOLLOWING SHIPS OF THE MK-III CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.4

ABBOTT *NCC-4673	GARTH *NCC 4618	MARB *NCC 4614
ACOSTA *NCC 4662	GORDON *NCC 4601	MEAL *NCC 4615
ASHBROOK *NCC-4646	GRACE *NCC 4617	VEN *NCC 4616
ATKINSON *NCC-4633	HAMERS *NCC 4618	VEN *NCC 4617
BAGWELL *NCC 4614	HELMER *NCC 4619	VEN *NCC 4618
BAIN *NCC 4620	HELMER *NCC 4620	VEN *NCC 4619
BARNETT *NCC 4604	HELMER *NCC 4621	VEN *NCC 4620
BEADLESS *NCC 4608	HELMER *NCC 4622	VEN *NCC 4621
BEDSALL *NCC 4640	HELMER *NCC 4623	VEN *NCC 4622
BLACKWOOD *NCC 4650	HELMER *NCC 4624	VEN *NCC 4623
CABALLERO *NCC 4655	HELMER *NCC 4625	VEN *NCC 4624
CAMPSEY *NCC 4643	HELMER *NCC 4626	VEN *NCC 4625
CAST *NCC 4661	HELMER *NCC 4627	VEN *NCC 4626
CAMPITT *NCC 4669	HELMER *NCC 4628	VEN *NCC 4627
DARBY *NCC 4624	HELMER *NCC 4629	VEN *NCC 4628
DAVILLA *NCC 4649	HELMER *NCC 4630	VEN *NCC 4629
DOWDY *NCC 4612	HELMER *NCC 4631	VEN *NCC 4630
DUVAK *NCC 4656	HELMER *NCC 4632	VEN *NCC 4631
ECKHOFF *NCC 4606	HELMER *NCC 4633	VEN *NCC 4632
ELDRIDGE *NCC-4612	HELMER *NCC 4634	VEN *NCC 4633
ETTER *NCC 4629	HELMER *NCC 4635	VEN *NCC 4634
FAIRBANKS *NCC 4637	HELMER *NCC 4636	VEN *NCC 4635
FAULKENBERRY *NCC 4617	HELMER *NCC 4637	VEN *NCC 4636
FOERSTER *NCC 4671	HELMER *NCC 4638	VEN *NCC 4637
GABRIEL *NCC 4635	HELMER *NCC 4639	VEN *NCC 4638
	HELMER *NCC 4640	VEN *NCC 4639
	HELMER *NCC 4641	VEN *NCC 4640
	HELMER *NCC 4642	VEN *NCC 4641
	HELMER *NCC 4643	VEN *NCC 4642
	HELMER *NCC 4644	VEN *NCC 4643
	HELMER *NCC 4645	VEN *NCC 4644
	HELMER *NCC 4646	VEN *NCC 4645
	HELMER *NCC 4647	VEN *NCC 4646
	HELMER *NCC 4648	VEN *NCC 4647
	HELMER *NCC 4649	VEN *NCC 4648
	HELMER *NCC 4650	VEN *NCC 4649
	HELMER *NCC 4651	VEN *NCC 4650
	HELMER *NCC 4652	VEN *NCC 4651
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	HELMER *NCC 4654	VEN *NCC 4653
	HELMER *NCC 4655	VEN *NCC 4654
	HELMER *NCC 4656	VEN *NCC 4655
	HELMER *NCC 4657	VEN *NCC 4656
	HELMER *NCC 4658	VEN *NCC 4657
	HELMER *NCC 4659	VEN *NCC 4658
	HELMER *NCC 4660	VEN *NCC 4659
	HELMER *NCC 4661	VEN *NCC 4660
	HELMER *NCC 4662	VEN *NCC 4661
	HELMER *NCC 4663	VEN *NCC 4662
	HELMER *NCC 4664	VEN *NCC 4663
	HELMER *NCC 4665	VEN *NCC 4664
	HELMER *NCC 4666	VEN *NCC 4665
	HELMER *NCC 4667	VEN *NCC 4666
	HELMER *NCC 4668	VEN *NCC 4667
	HELMER *NCC 4669	VEN *NCC 4668
	HELMER *NCC 4670	VEN *NCC 4669
	HELMER *NCC 4671	VEN *NCC 4670
	HELMER *NCC 4672	VEN *NCC 4671
	HELMER *NCC 4673	VEN *NCC 4672
	HELMER *NCC 4674	VEN *NCC 4673
	HELMER *NCC 4675	VEN *NCC 4674
	HELMER *NCC 4676	VEN *NCC 4675
	HELMER *NCC 4677	VEN *NCC 4676
	HELMER *NCC 4678	VEN *NCC 4677
	HELMER *NCC 4679	VEN *NCC 4678
	HELMER *NCC 4680	VEN *NCC 4679
	HELMER *NCC 4681	VEN *NCC 4680
	HELMER *NCC 4682	VEN *NCC 4681
	HELMER *NCC 4683	VEN *NCC 4682
	HELMER *NCC 4684	VEN *NCC 4683
	HELMER *NCC 4685	VEN *NCC 4684
	HELMER *NCC 4686	VEN *NCC 4685
	HELMER *NCC 4687	VEN *NCC 4686
	HELMER *NCC 4688	VEN *NCC 4687
	HELMER *NCC 4689	VEN *NCC 4688
	HELMER *NCC 4690	VEN *NCC 4689
	HELMER *NCC 4691	VEN *NCC 4690
	HELMER *NCC 4692	VEN *NCC 4691
	HELMER *NCC 4693	VEN *NCC 4692
	HELMER *NCC 4694	VEN *NCC 4693
	HELMER *NCC 4695	VEN *NCC 4694
	HELMER *NCC 4696	VEN *NCC 4695
	HELMER *NCC 4697	VEN *NCC 4696
	HELMER *NCC 4698	VEN *NCC 4697
	HELMER *NCC 4699	VEN *NCC 4698
	HELMER *NCC 4700	VEN *NCC 4699

CLASS SHIP. "LOST IN THE LINE OF DUTY." "PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



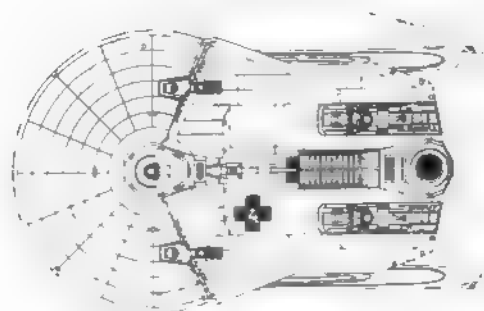
Field Length 521.82m  
Field Width 230.74m  
Field Height 102.71m



Front Warp Field Profile  
Cross Section Area 18944.98 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 39205.98 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 90273.04 m<sup>2</sup>

## WARP FIELDS

## FRIGATE



## General Information

**Specific Role:** Exhaustive research of Federation involvement in peace-keeping duties led to the development of the Frigate, a fighting ship primarily used to transport fighter-craft and troops into battle. The Frigate's small, stout package presents minimal silhouette target area to enemy vessels. The Frigate is equipped with a medium hangar bay designed to launch and maintain a single wing of fighter craft. To increase the firepower of the Frigate, two MegaPhasers were added to the primary hull and are powered directly off the intermix chamber. Troops are carried aboard at all times and can use either assault shuttles or transporters to reach specific planetary engagements.

**Physical Description:** The Frigate incorporates an (PHE147/F-M2) extended primary hull equipped with heavy weapons, shielding, and ECM devices; as well as a (BS9/F-T2) bridge which contains a larger weapons station. Mounted on the underside of the primary hull is the integrated (SM49/5J) main sensor array and (DN4/2-G) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/T-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-IR) dual impulse units which are used for auxiliary power and sub-light propulsion. Located to the rear of the primary hull on the starboard side of the impulse engines, is a medium hangar deck. The vessels's warp fields are generated by two (SW52/1-5RL) warp nacelles attached to the primary hull by (DU/25-6G) support pylons. Within the primary hull are the (M28/4-2Y) intermix chamber and (AM8/36-4S) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Above the primary hull extension mounted port and starboard are two (MP2/15-2G) MegaPhasers. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

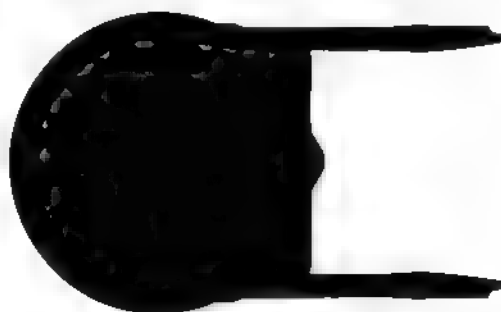
For additional detail refer to Datasheet MV-23

## Class Emblem



## Ship Silhouettes

Total Target Area 27528.08 m<sup>2</sup>  
Average Target Area 9076.01 m<sup>2</sup>



Top Silhouette  
Area 18424.06 m<sup>2</sup>



Port Silhouette  
Area 5129.10 m<sup>2</sup>

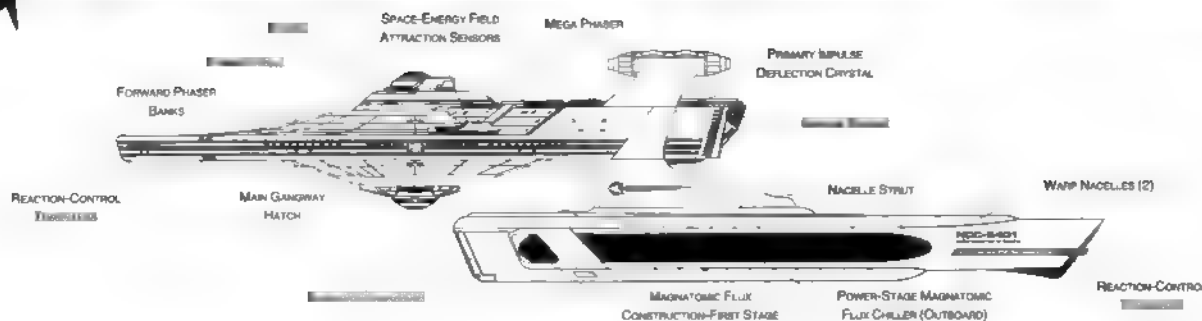


Front Silhouette  
Area 2674.87 m<sup>2</sup>

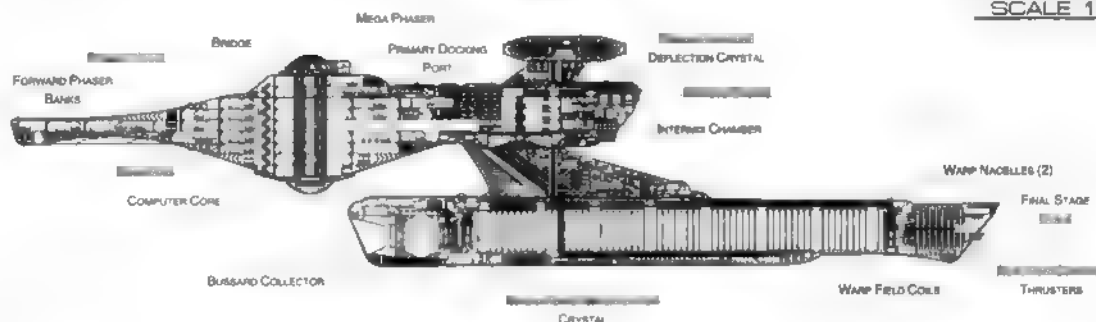


# FRIGATE

BRAAG CLASS



## PORT PROFILE



METERS  
0 10 20 30 40 50  
SCALE 1:1800

## CROSS SECTION

# Statistics

**Classification:** Frigate

**Category:** Frigate

**Class:** Braag

**Type:** Class 1

**Model:** MK XLIIIa

**Naval Construction Contract:** 1900

**Number Proposed:** 84

**Number Constructed:** 49

**Number in Service:** 48

**Number Lost:** 1

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 234.74 m

Width: 141.72 m

Height: 54.88 m

**Primary Hull Dimensions (Meters)**

Length: 149.42 m

Width: 141.72 m

Height: 32.9 m

**Secondary Hull Dimensions (Meters)**

Length: N/A

Width: N/A

Height: N/A

**Warp Unit Dimensions (Meters)**

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

**Displacement (Metric Tons)**

Light: 187932 mt

Standard: 201347 mt

Full Load: 224768 mt

**Performance:**

**Impulse Units:** Dual Unit (IP186E/5-IR)

**Impulse Engine Output:** 7.8x10<sup>13</sup> W

**Impulse Power Index:** 0.98

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.204 sec

0.25-0.50 Impulse: 0.306 sec

0.50-0.75 Impulse: 0.408 sec

0.75-Full Impulse: 0.51 sec

**Warp Units:** 2 Nacelle Units (SW52/1-SRL)

**Warp Engine Output:** 1.2x10<sup>15</sup> W

**Warp Power Index:** 0.98

**Optimum Speed:** 4

**Max. Safe Cruising:** 6.1

**Emergency Speed:** 8.2

**Max. Speed:** 9.1

**Destructive Speed:** 9.2

**Acceleration Power:**

**Acceleration Times:**

Warp 1 - Warp 2: 0.204 sec

Warp 2 - Warp 3: 0.326 sec

Warp 3 - Warp 4: 1.233 sec

Warp 4 - Warp 5: 1.774 sec

Warp 5 - Warp 6: 1.896 sec

Warp 6 - Warp 7: 2.049 sec

Warp 7 - Warp 8: 2.63 sec

Warp 8 - Warp 9: 3.761 sec

Warp 9 - Warp 9.5: 8.358 sec

Warp 9.5 - Warp 9.75: 9.683 sec

Warp 9.75 - Warp 9.9: 20.079 sec

**Duration (Years)**

Standard: 4 Years

Maximum: 16 Years

**Std. Ship Complement:** 398

Officers: 61

Crew (Ensign Grade): 295

Troops: 40

Passengers: 30

**Emergency condition:** + 481

**Medical Facilities:**

Doctors: 3

**Medical Staff:** 7

**Operating Rooms:** 2

**Laboratories:** 6

**Transporters Total:** 10

1 Person: 0

2 Person: 0

6 Person: 4

12 Person: 0

22 Person: 4

Small Cargo: 1

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

**Brigs:** 23

**Replicators:** 15

**Traitor Beams:** 1

**Tow Capacity:** 3.64x10<sup>6</sup> mt

**Max Range:** 9.1x10<sup>4</sup> km

**Cargo Specification:**

**Standard Cargo Units:** 291

**Cargo Capacity:** 14550 mt

**Shuttlecraft Specifications:**

**Docking Ports:** 5

**Shuttlecraft Bays Total:** 1

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

**Shuttlecraft Bay:** 0

**Work Bays:** 2

**Acoustic Shuttle:** 1

**Light Shuttle:** 1

**Heavy Shuttle:** 1

**Cargo Shuttle:** 1

**Assault Shuttle:** 10

**Light Fighter:** 5

**Fighter:** 5

**Heavy Fighter:** 4

**Turbolift (8 person):** 25

**Lifboat (10 person):** 13

**Lifboat (20 person):** 5

**Lifboat (30 person):** 0

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 0.93

**Stellar Survey:** 0.77

**Short Range:** 1.24

**Long Range:** 1.02

**Navigation:** 1.24

**Special:** 1.26

**Computers:** 2

**Type:** Daystrom Duotronic 1-IIIc

**Type:** Daystrom Duotronic 1-IIIc

**ECM Index:** 1.21

**Shield Rating:**

**Shield Index:** 0.59

**Holdoff Power:** 1.96x10<sup>12</sup> W

**Refresh Rate:** 5.58x10<sup>11</sup> W

**Breakdown Rate:** 6.7x10<sup>11</sup> W

**Shield Dimensions (Meters)**

Length: 352.1 m

Width: 212.6 m

Height: 62.3 m

**Weapons:**

**Phaser Power Index:** 1.22

**Photon Power Index:** 0.00

**Vessel Power Index:** 0.61

**Weapon Placement**

**Beam (Phasers) Total:** 6 banks 2 each

**Output:** 5x10<sup>11</sup> W 2.5x10<sup>11</sup> W

**Range:** 2.5x10<sup>5</sup> km

**Rate of Fire:** 30 ppm/Cont.

**Forward Banks:** 2

**Rear Banks:** 0

**Port Banks:** 2

**Starboard Banks:** 2

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 2

**Output:** 2.6x10<sup>12</sup> W 1.3x10<sup>12</sup> W

**Range:** 1x10<sup>6</sup> km

**Rate of Fire:** 15 ppm

**Forward/Rear Banks:** 2

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Terpedoes (Photon) Total:** N/A

**Stock:** N/A

**Range:** N/A

**Output:** N/A

**Rate of Fire:** N/A

**Forward Bay:** 0

**Rear Bay:** 0

**Port Bay:** 0

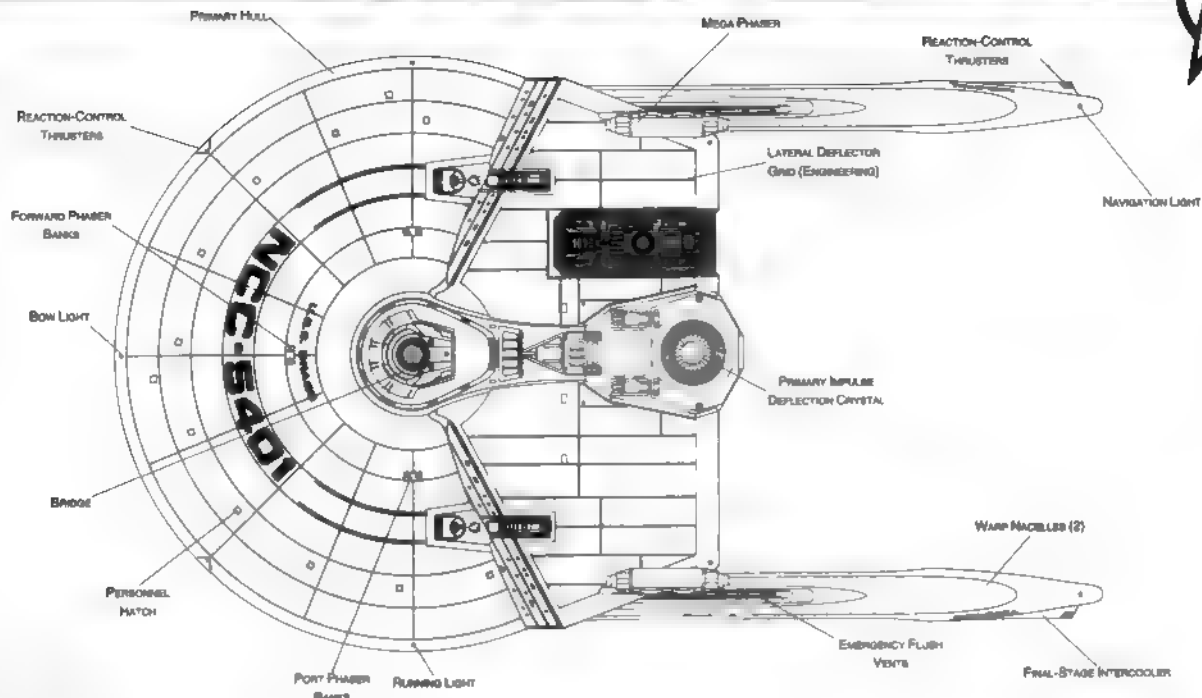
**Starboard Bay:** 0

**Upper Bay:** 0

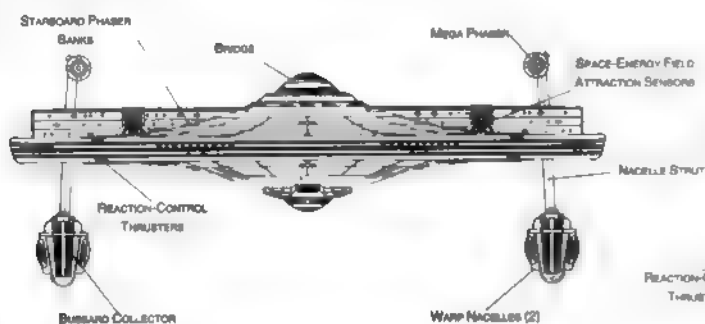
**Lower Bay:** 0

FEDERATION VESSEL

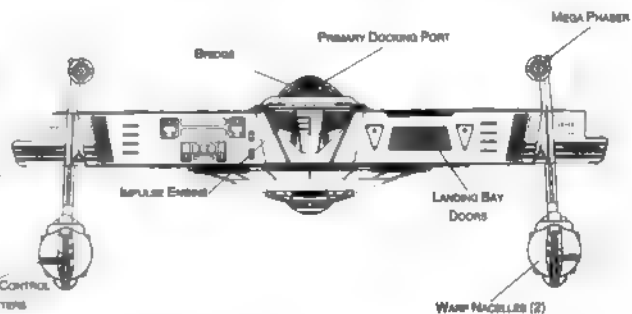
## FRIGATE



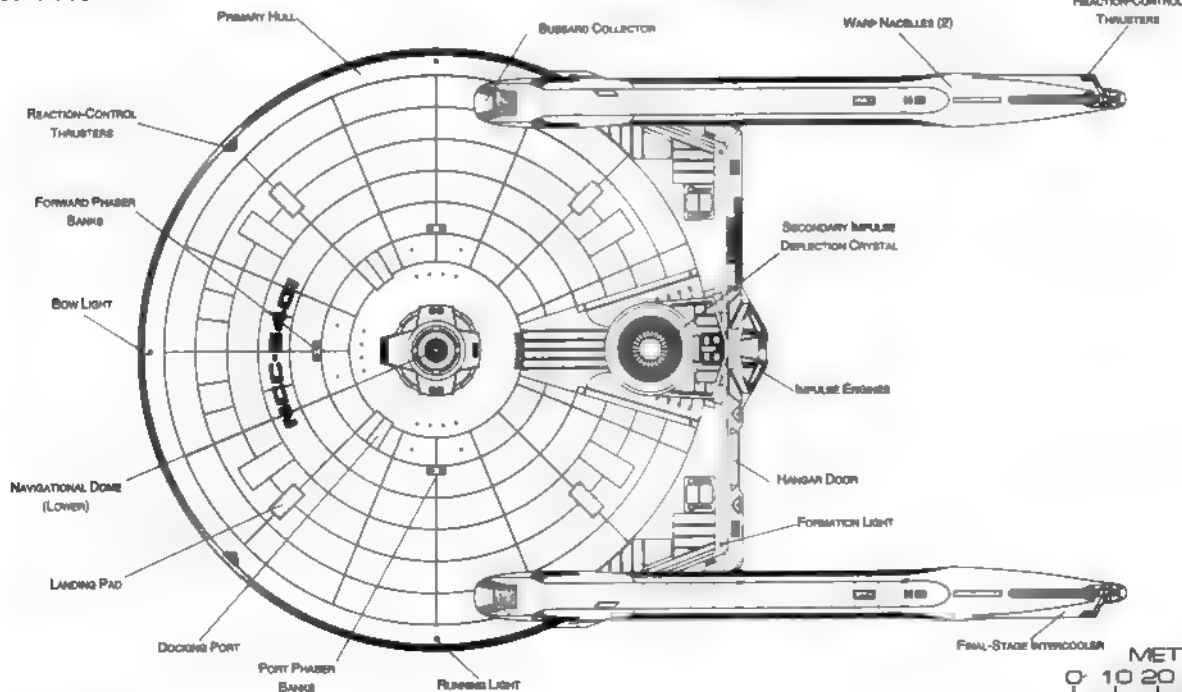
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:1800



# Ship Names

THE FOLLOWING SHIPS OF THE MK-XLII<sup>®</sup> CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2267.8

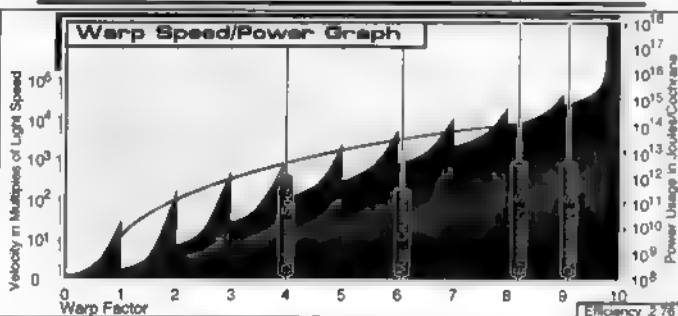
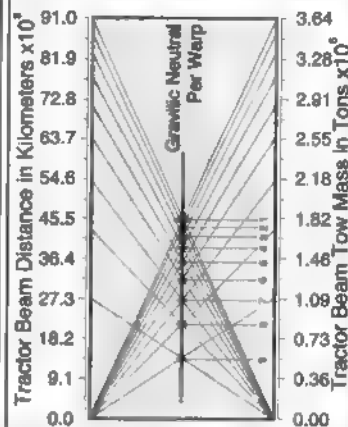
AGATON •NCC-5433	ERIE •NCC-5475***	ORD •NCC-5448	SUOMENLINNA •NCC-5447
AGRA •NCC-5439	FAN LAU •NCC-5429	OSWEGO •NCC-5465***	SVARTHOLMA •NCC-5431
AMHERST •NCC-5432	FESTUNG •NCC-5435	OJATONEN •NCC-5472***	TAKU •NCC-5420
ARAD •NCC-5411	GARRY •NCC-5413	PEPPERELL •NCC-5477***	TILBURY •NCC-5418
BABRUYSK •NCC-5473***	GASPEREAU •NCC-5412	PHELSH'T •NCC-5438	TOWNSEND •NCC-5468***
BATTLEFORD •NCC-5470***	GEORGE •NCC-5415	PRESIDIO •NCC-5405	TREGANTLE •NCC-5457***
BELAN •NCC-5426	GOLKONDA •NCC-5423	QAL'AT AL-BAHRAIN •NCC-5421	TRUMBULL •NCC-5467***
BENGHISA •NCC-5419**	GRANGE •NCC-5464***	RAIGAD •NCC-5458***	TURKU •NCC-5408
BOKAR •NCC-5425	HALIFAX •NCC-5422	RANIKOT •NCC-5455***	YEHIAM •NCC-5414
BRAGG •NCC-5401	KORELA •NCC-5427	REVELIN •NCC-5479***	
CALGARY •NCC-5468***	KRONSTADT •NCC-5454***	RIFFA •NCC-5416	
CANNING •NCC-5428	LANGSTONE •NCC-5481***	RINELLA •NCC-5481***	
CAPUZZO •NCC-5478***	LIERRE •NCC-5409	ROTTERDAM •NCC-5440	
CARLSTEN •NCC-5451***	LOVRUENAC •NCC-5402	SAALBURG •NCC-5474***	
CUMBERLAND •NCC-5482***	MCHEMRY •NCC-5459***	SAINT ANNE •NCC-5434	
DARNET •NCC-5442	MCNAB •NCC-5456***	SAN CRISTOBAL •NCC-5483***	
DAULATABAD •NCC-5445	MACON •NCC-5453***	SAN FELIPE •NCC-5424	
DAUPHIN •NCC-5417	MALDEN •NCC-5444	SASKATCHEWAN •NCC-5400	
DE JOUX •NCC-5478***	MATANZAS •NCC-5441	SHOREHAM •NCC-5471***	
DELIMARA •NCC-5404	MEIGS •NCC-5480***	SIGNAL HILL •NCC-5406	
DETROIT •NCC-5407	MONCKTON •NCC-5462***	SILOSO •NCC-5483***	
DIX •NCC-5403	MONMOUTH •NCC-5452***	SNELLING •NCC-5410	
DJQUESNE •NCC-5489***	NASHWAAK •NCC-5443	STABROECK •NCC-5480***	
EDWARD •NCC-5450***	NEWHAVEN •NCC-5446	STEELE •NCC-5449***	
ELSON •NCC-5430	NIAGARA •NCC-5437	STEBEN •NCC-5436	

\*CLASS SHIP. \*\*LOST IN THE LINE OF DUTY. \*\*\*PROPOSED. ALL NAMES FORWARDED WITH "U.S.S."

## FRIGATE

### Tractor Beam Specifications

Primary Tractor Beam Load Calculator



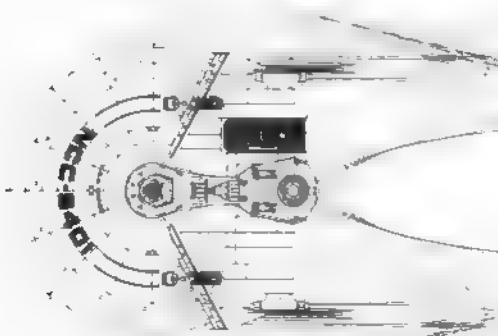
Field Length 464.82m  
Field Width 202.38m  
Field Height 85.78m



Front Warp Field Profile  
Cross Section Area 13820.48 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 26392.24 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 86267.22 m<sup>2</sup>



# TRANSPORT / TUG

## General Information

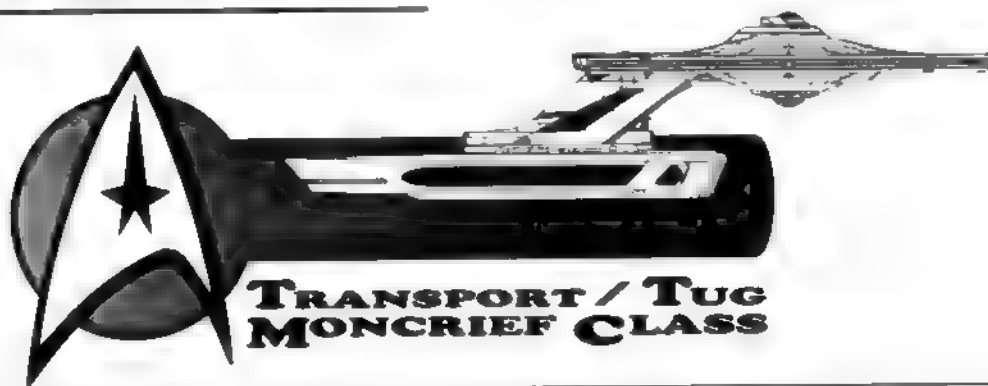


**Specific Role:** The Transport/Tug is the Federation's most widely used supply line vessel. Starfleet depends upon the reliability of this vessel since it spends the least amount of time of any starship in port, even when compared to the busiest of military vessels. The Transport/Tug has additional staterooms to accommodate passengers. The tug is able to carry up to four containers by manipulating its warp field, but at a reduction of top speed. The tug is also equipped with a heavy duty tractor beam designed for extra range and tonnage.

**Physical Description:** The Transport's (PH147/C C3) primary hull contains additional passenger accommodations and a small hangar deck located on the upper starboard side. The primary hull is equipped with the (BS10/T-E5) bridge containing additional navigation and field manipulation instrumentation. On the lower part of the primary hull is the (SM49/2A) main sensor array and (DN4/2D) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30 2C) phaser banks. To the rear of the primary hull are (IRF35E/4-QW) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessels' warp fields are generated by two (SW52/1-5NZ) warp nacelles attached to the primary hull by (DU/35-6Q) support pylons. Attached below the primary hull by the (DU/50-48C) connecting dorsal is a (AP3/T-3) container attachment plate. Located inside the dorsal, for emergency jettisoning, are the (M15/8 2E) internix chamber and (AM8/36 4U) matter/antimatter storage tanks. Nestled between the dorsal and the attachment plate is a forward facing (PB2/25-10J) photon torpedo bay. In the event of an emergency, one or both nacelles can be jettisoned. Once separated the primary hull can maneuver on the remaining warp nacelle or impulse power for extended periods of time.

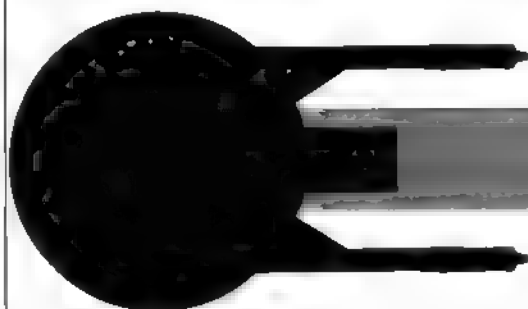
For additional detail refer to Datasheet MVA-2

### Class Emblem



### Ship Silhouettes

Total Target Area 78205.95 m<sup>2</sup> 45595.54 m<sup>2</sup> 80957.12 m<sup>2</sup>  
Average Target Area 25401.98 m<sup>2</sup> 15198.88 m<sup>2</sup> 20319.04 m<sup>2</sup>



**Top Silhouette**  
Area 20195.47 m<sup>2</sup> 27374.05 m<sup>2</sup> 38507.99 m<sup>2</sup>



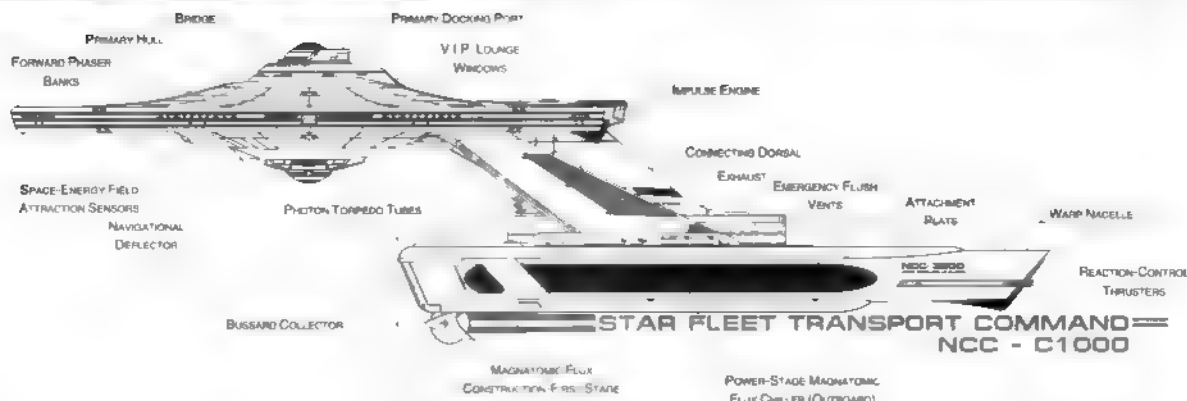
**Port Silhouette**  
Area 53573.59 m<sup>2</sup> 13955.03 m<sup>2</sup>  
18222.56 m<sup>2</sup>

**Front Silhouette**  
Area 2435.79 m<sup>2</sup> 4226.55 m<sup>2</sup> 4226.55 m<sup>2</sup>

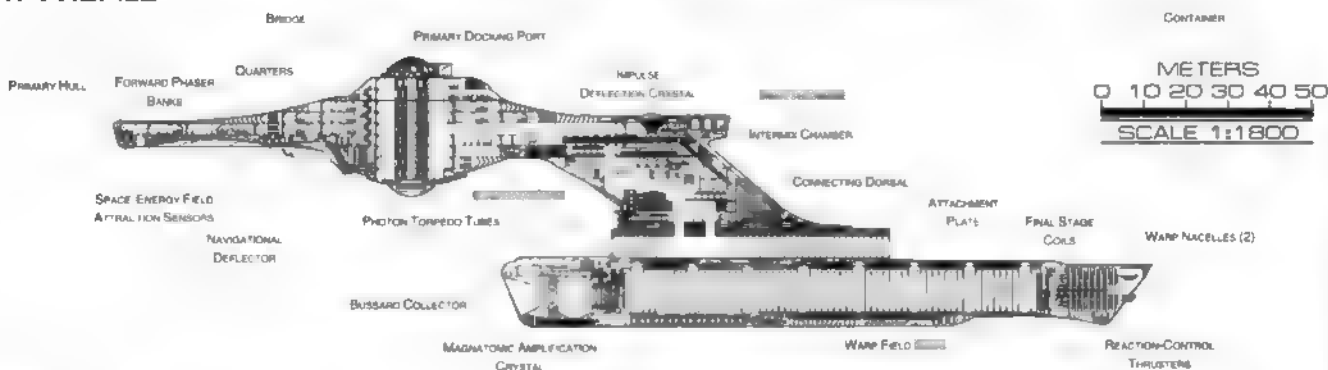


# TRANSPORT / TUG

MONCRIEF CLASS



## PORT PROFILE



## CROSS SECTION

# Statistics

Classification: Trans/Tug

Category: Trans/Tug

Class: Moncrief

Type: Class1

Model MK VIIa

Naval Construction Contract: 3800

Number Proposed: 100

Number Constructed: 100

Number in Service: 97

Number Lost: 3

Overall Dimensions (Meters)

Length: 247.11 m

Width: 141.72 m

Height: 63.97 m

Primary Hull Dimensions (Meters)

Length: 146.31 m

Width: 141.72 m

Height: 32.94 m

Secondary Hull Dimensions (Meters)

Length: N/A

Width: N/A

Height: N/A

Warp Unit Dimensions (Meters)

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

Displacement (Metric Tons)

Light: 136834 mt

Standard: 146388 mt

Full Load: 163415 mt

Performance:

Impulse Units: Dual Unit (IRF35E/4-QW)

Impulse Engine Output:  $7.8 \times 10^{13}$  W

Impulse Power Index: 1.35

Max Cruising: C

Acceleration Rate

0.00-0.25 Impulse: 0.148 sec

0.25-0.50 Impulse: 0.222 sec

0.50-0.75 Impulse: 0.296 sec

0.75-Full Impulse: 0.371 sec

Warp Units: 2 Nacelle Units (SW52/1-5NZ)

Warp Engine Output:  $1.2 \times 10^{15}$  W

Warp Power Index: 1.35

Optimum Speed: 4

Max. Safe Cruising: 6

Emergency Speed: 7.5

Max. Speed: 9.1

Destructive Speed: 9.2

Acceleration Power: 3

Acceleration Times:

Warp 1 - Warp 2: 0.148 sec

Warp 2 - Warp 3: 0.237 sec

Warp 3 - Warp 4: 0.897 sec

Warp 4 - Warp 5: 1.289 sec

Warp 5 - Warp 6: 1.378 sec

Warp 6 - Warp 7: 1.489 sec

Warp 7 - Warp 8: 1.912 sec

Warp 8 - Warp 9: 2.734 sec

Warp 9 - Warp 9.5: 6.077 sec

Warp 9.5 - Warp 9.75: 7.04 sec

Warp 9.75 - Warp 9.9: 14.599 sec

Duration (Years)

Standard: 4 Years

Std. Ships Complement: 339

Officers: 56

Crew (Ensign Grade): 281

Troops: 0

Passengers: 40

Emergency condition: + 482

Doctors: 3

Operating Rooms: 2

Beds: 16

Laboratories: 6

Transporters Total: 8

1 Person: 0

2 Person: 0

6 Person: 3

12 Person: 0

22 Person: 3

Small Cargo: 1

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

Brigs: 13

Replicators: 11

Tractor Beams: 1

Tow Capacity:  $4.83 \times 10^8$  mt

Max Range:  $1.52 \times 10^8$  km

Cargo Specification:

Standard Cargo Units: 187

Cargo Capacity: 8350 mt

Shuttlecraft Specifications:

Docking Ports: 3

Shuttlecraft Bays Total: 1

Small Bay: 1

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Work Bays: 1

Travel Pods: 1

Aquatic Shuttle: 1

Light Shuttle: 0

Standard Shuttle: 1

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 2

Light Fighter: 2

Fighter: 2

Heavy Fighter: 2

Turbolift (8 person): 18

Lifeboat (10 person): 11

Lifeboat (20 person): 5

Lifeboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.97

Stellar Survey: 0.86

Short Range: 0.98

Long Range: 0.88

Navigation: 1.12

Special: 1.94

Computers: 2

Type: Daystrom Deutronic 1-IIIu

Type: Daystrom Deutronic 1-IIj

ECM Index: 1.12

Shield Rating:

Shield Index: 0.90

Holdoff Power:  $2.15 \times 10^{12}$  W

Refresh Rate:  $6.12 \times 10^{11}$  W

Breakdown Rate:  $7.34 \times 10^{11}$  W

Shield Dimensions (Meters)

Length: 370.7 m

Width: 212.6 m

Height: 96 m

Weapons:

Phaser Power Index: 0.90

Photon Power Index: 0.00

Vessel Power Index: 0.45

Weapon Placement:

Beam (Phasers) Total: 6 banks 2 each

Output:  $5 \times 10^{11}$  W  $2.5 \times 10^{11}$  W

Range:  $2.5 \times 10^8$  km

Rate of Fire: 30 ppm/Cont

Forward Banks: 2

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: N/A

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 1

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

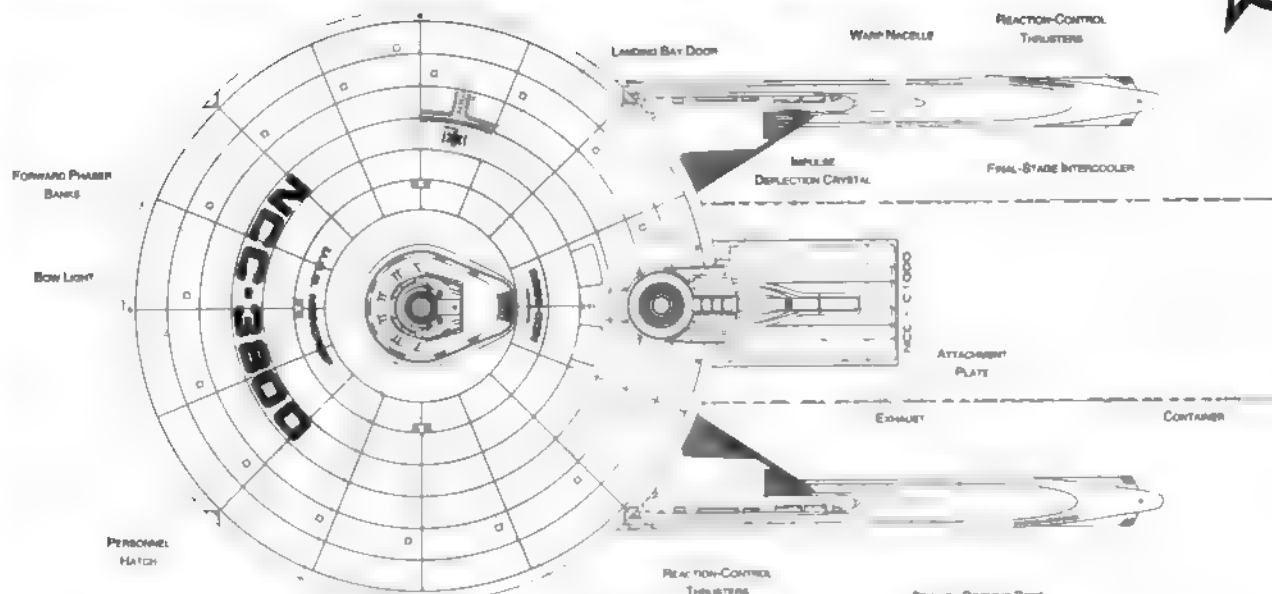
Lower Bay: 0

FEDERATION VESSEL

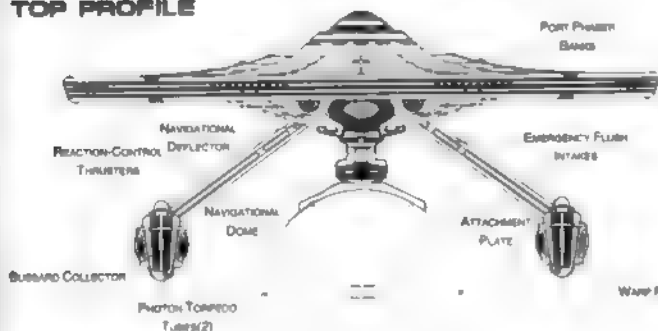
# TRANSPORT / TUG



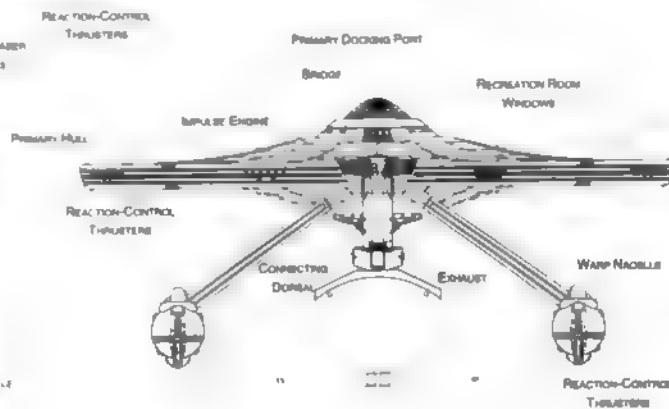
MONCRIEF CLASS



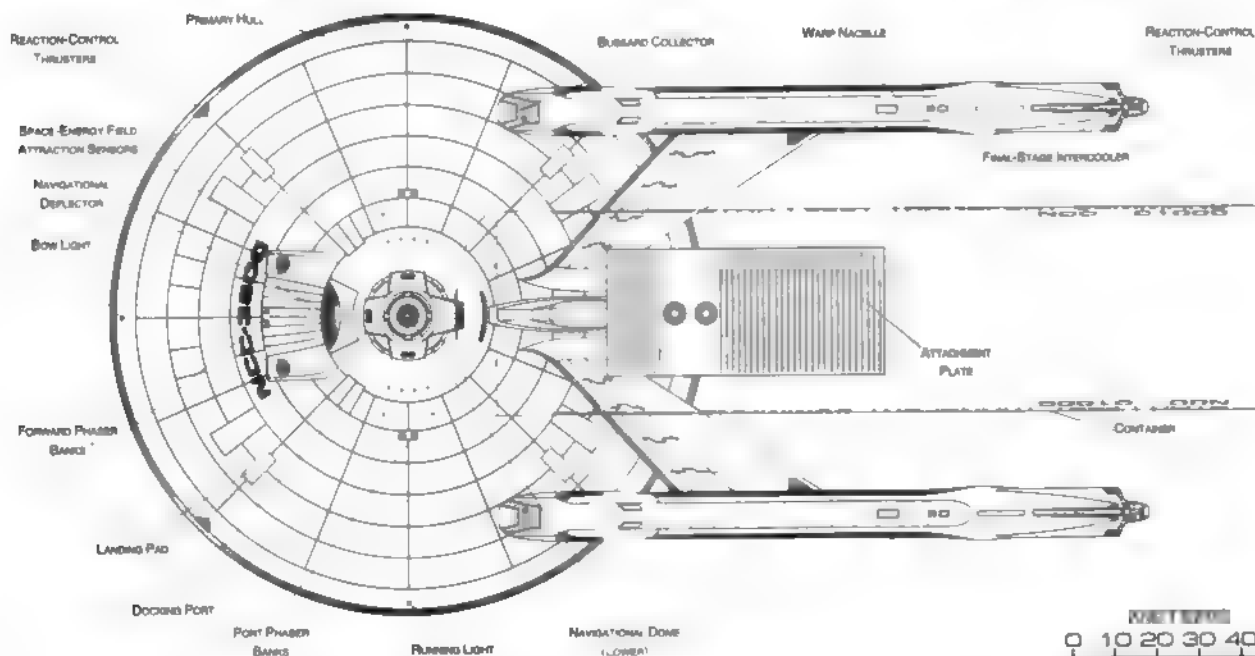
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

0 10 20 30 40 50  
SCALE 1:1800

FEDERATION VESSEL



# TRANSPORT / TUG

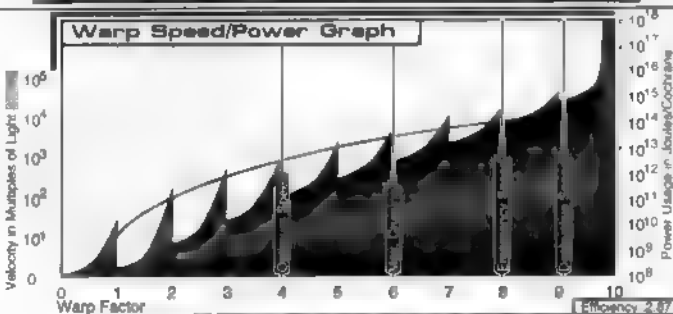
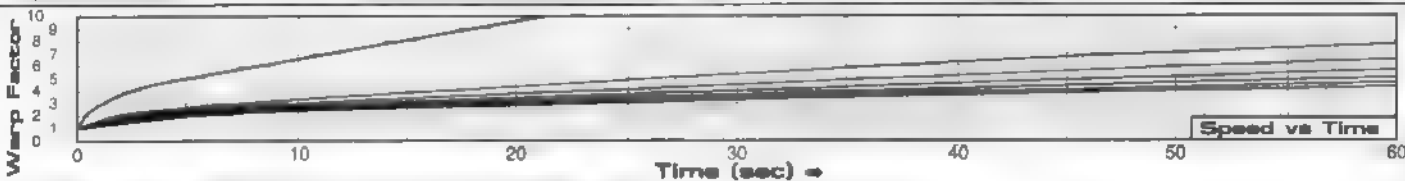
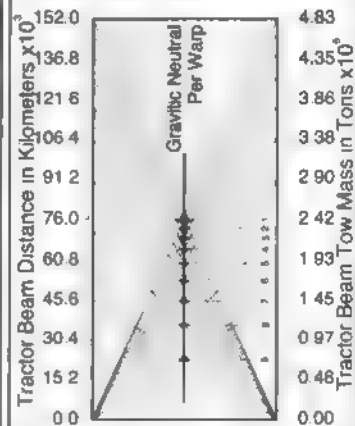
## Ship Names

THE FOLLOWING SHIPS OF THE MK-VI<sup>a</sup> CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2288.7

AIRY • NCC-3842	DREYER • NCC-3899	JEFFREY • NCC-3835	PTOLEMY • NCC-3801
AL RASHID • NCC-3802	EDDINGTON • NCC-3845	KAULA • NCC-3889	PYTHAGORAS • NCC-3812
AMBARTSUMIAN • NCC-3817	ENCKE • NCC-3859	KEPLER • NCC-3816	REBER • NCC-3892
ANAXAGORAS • NCC-3803	ERATOSTHENES • NCC-3807	KIDINNU • NCC-3826	RICCIOLI • NCC-3823
ANAXIMANDER • NCC-3804	FLAMARION • NCC-3818	KLEPSTRA • NCC-3882	RITTENHOUSE • NCC-3851
APIAN • NCC-3898	FRACASTOR • NCC-3872	KRUGER • NCC-3871	ROSS • NCC-3865
AR STARCHUS • NCC-3805	GAILLOT • NCC-3832	KUIPER • NCC-3838	SABINE • NCC-3879
BAADE • NCC-3855	GALILEI • NCC-3806	LAPLACE • NCC-3876	SAVARY • NCC-3839
BAYER • NCC-3869	GALLE • NCC-3886	LEAVITT • NCC-3849	SCHNEIDER • NCC-3893
BIELA • NCC-3884	GAUTIER • NCC-3846	LEVERRIER • NCC-3828	SCHAPARELLI • NCC-3819
BONDI • NCC-3843	GOLDRICH • NCC-3858	LOCKYER • NCC-3890	SCHMIDT • NCC-3880
BRAHE • NCC-3821	HALE • NCC-3873	LUYTEN • NCC-3829	SECCHII • NCC-3852
BROUWER • NCC-3897	HALLEY • NCC-3833	MESSIER • NCC-3830	SHKLOVSKY • NCC-3868
CAMPBELL • NCC-3856	HAYASHI • NCC-3887	MITCHELL • NCC-3863	STRUVE • NCC-3840
CARRINGTON • NCC-3870	HENCKE • NCC-3847	MONCRIEF • NCC-3800*	SWIFT • NCC-3894
CASSINI • NCC-3824	HERSCHELL • NCC-3860	NEWMAN • NCC-3877	THALES • NCC-3813
CHAMBERLAIN • NCC-3863	HEVELIUS • NCC-3814	NEWTON • NCC-3822	TOMBAUGH • NCC-3853
CHAUVENET • NCC-3844	HIPPARCHUS • NCC-3809	OORT • NCC-3837	TOSCANELLI • NCC-3867
CLARK • NCC-3899	HIRAYAMA • NCC-3874**	PAULITZSCH • NCC-3891	ULUGH BEG • NCC-3810
COLUMBO • NCC-3857	HOLDBEN • NCC-3834	PEALE • NCC-3850	VAN DE KAMP • NCC-3881
COPERNICUS • NCC-3815	HUBBLE • NCC-3848	PHILOUS • NCC-3811**	VOGEL • NCC-3841
DESLANDRES • NCC-3820	HUMASON • NCC-3861	PIAZZI • NCC-3827	VON ZACH • NCC-3882
DOLLFUS • NCC-3885	IBN DAUD • NCC-3806	PICKERING • NCC-3864	WALKER • NCC-3895
DONATI • NCC-3825	JANSKI • NCC-3875	POPPER • NCC-3878	WOLASTON • NCC-3854
DOPPLER • NCC-3831**		PRITCHETT • NCC-3838	WRIGHT • NCC-3868

## Tractor Beam Specifications

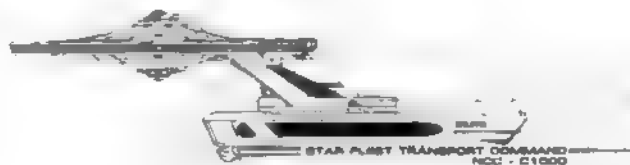
Primary Tractor Beam Load Calculator



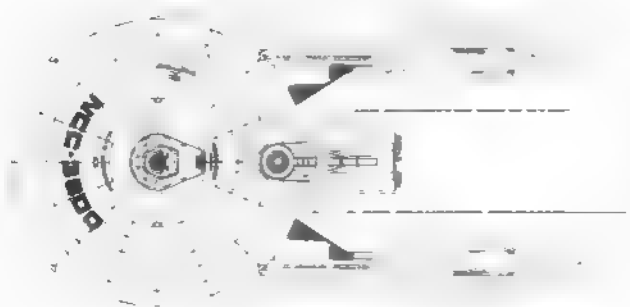
Field Length 478.28m  
Field Width 101.22m  
Field Height 101.22m



Front Warp Field Profile  
Cross Section Area 12776.54 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 35078.55 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 88925.22 m<sup>2</sup>

# HEAVY TRANSPORT / TUG



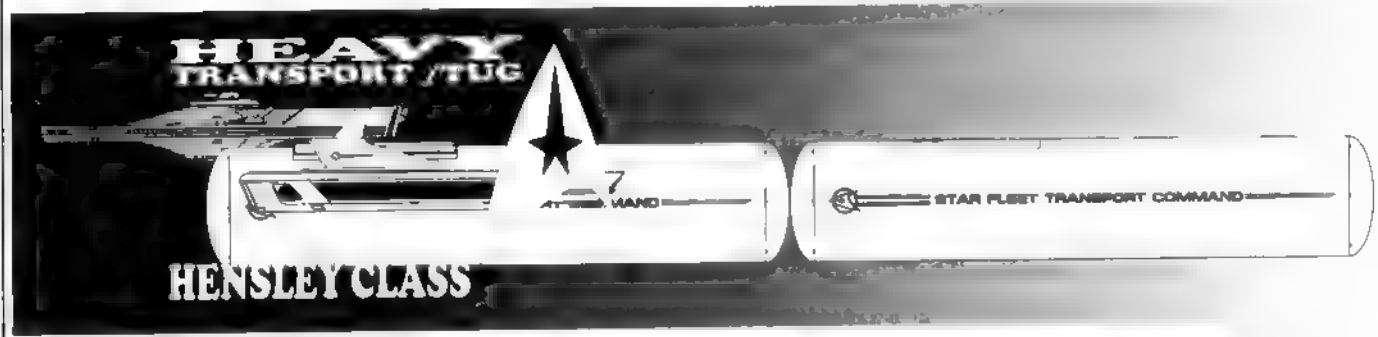
## General Information

**Specific Role:** The ever increasing tonnage of equipment and supplies called for the design of a heavier transport/tug vessel. The Heavy Transport/Tug's internal arrangement allows additional passenger accommodations and even a few staterooms. Although slower than the Transport/Tug, the towing capacity has doubled while maintaining the same power consumption. The tug is able to carry up to six containers by manipulating it's warp field to cover the additional containers, but with a reduction of top speed. The tug is also equipped with a heavy duty tractor beam designed for extreme range and tonnage.

**Physical Description:** The Transport/Tug incorporates an (PHE147/W-T2) extended primary hull equipped which contains additional passenger accommodations. The primary hull is equipped with the (BS9/F-R5) bridge that contains additional navigation stations and multiple field manipulation instrumentation. Mounted on the underside of the primary hull is the integrated (SM49/6S) main sensor array and (DN4/2-T) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are the (DN2/T-5.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-MN) dual impulse units which are used for auxiliary power and sub-light propulsion. Situated to the rear of the primary hull on the starboard side of the impulse engines, is a medium hangar deck. The vessels's warp fields are generated by two (SW52/1-5RG) warp nacelles attached to the primary hull by (DU/25-6G) support pylons. Within the primary hull are the (M28/4-2Y) intermix chamber and (AM8/36-4S) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Below the primary hull are two (AP3/T-3) container attachment plates connected by two (DU/20-16A) connecting dorsals. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

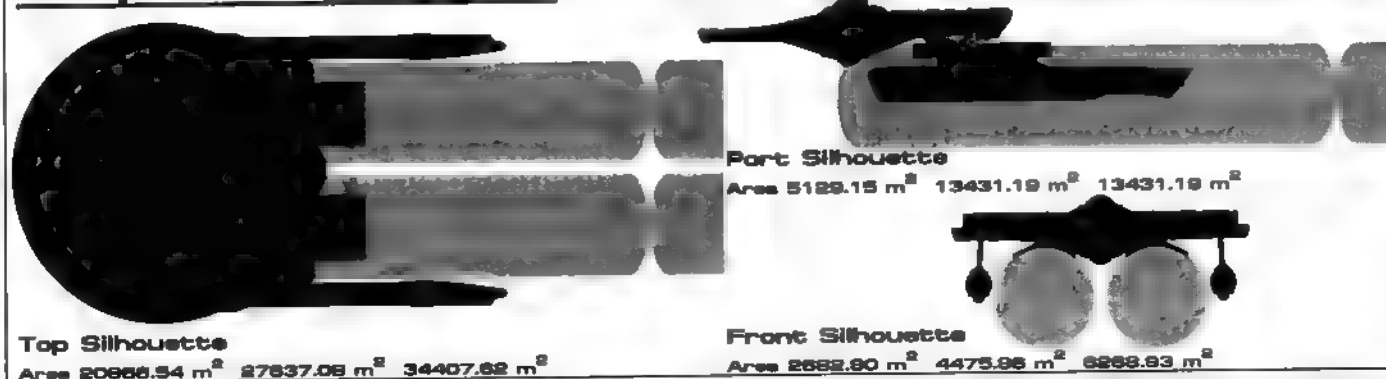
For additional detail refer to Datasheet MVA-3

## Class Emblem



## Ship Silhouettes

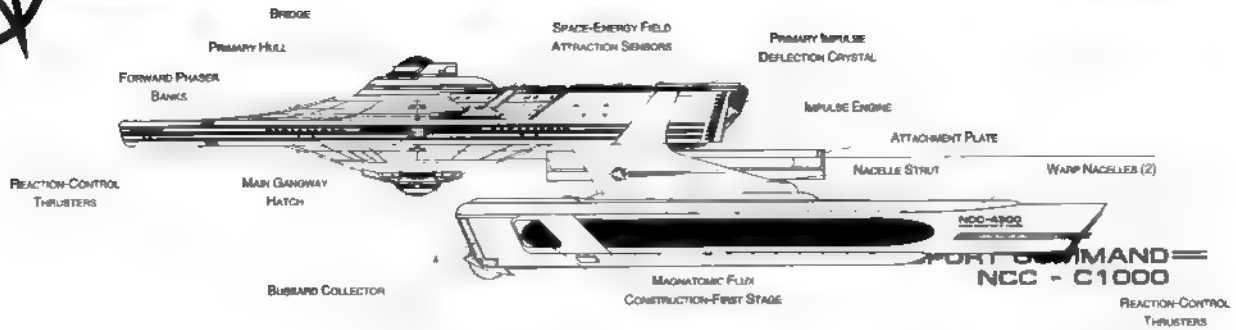
Total Target Area 28578.49 m<sup>2</sup> 46544.13 m<sup>2</sup> 54107.74 m<sup>2</sup>  
Average Target Area 9559.50 m<sup>2</sup> 15181.37 m<sup>2</sup> 18035.91 m<sup>2</sup>





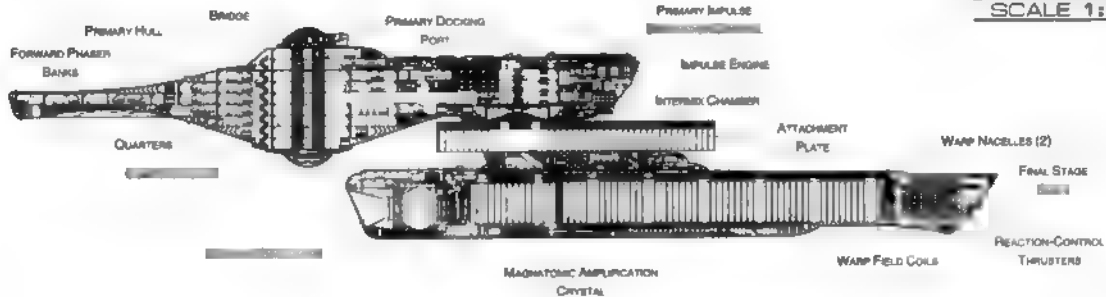
# HEAVY TRANSPORT / TUG

HENSLEY CLASS



PORT PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:1800



CROSS SECTION

## Statistics

**Classification:** Heavy Trans/Tug  
**Category:** Trans/Tug  
**Class:** Hensley  
**Type:** Class1  
**Model:** MK Va  
**Naval Construction Contract:** 4300  
**Number Proposed:** 96  
**Number Constructed:** 70  
**Number in Service:** 69  
**Number Lost:** 1

### Dimensions

**Overall Dimensions (Meters)**  
Length: 234.74 m  
Width: 141.72 m  
Height: 54.89 m  
**Primary Hull Dimensions (Meters)**  
Length: 149.42 m  
Width: 141.72 m  
Height: 32.94 m

**Secondary Hull Dimensions (Meters)**  
Length: N/A  
Width: N/A  
Height: N/A

**Warp Unit Dimensions (Meters)**  
Length: 164.81 m  
Width: 12.63 m  
Height: 18.32 m

**Displacement (Metric Tons)**  
Light: 192031 mt  
Standard: 205740 mt  
Full Load: 229871 mt

### Performance

**Impulse Units:** Dual Unit (IP188E/5-MN)  
**Impulse Engine Output:**  $7.6 \times 10^{13}$  W  
**Impulse Power Index:** 0.96  
**Max Cruising:** C  
**Acceleration Rate:**  
0.00-0.25 Impulse: 0.208 sec  
0.25-0.50 Impulse: 0.312 sec  
0.50-0.75 Impulse: 0.417 sec  
0.75-Full Impulse: 0.521 sec  
**Warp Units:** 2 Nacelle Units (SW52/1-5RG)  
**Warp Engine Output:**  $1.2 \times 10^{15}$  W  
**Warp Power Index:** 0.96

**Optimum Speed:** 4  
**Max. Safe Cruising:** 6  
**Emergency Speed:** 8  
**Max. Speed:** 9.19  
**Destructive Speed:** 9.29  
**Acceleration Power:** 3  
**Acceleration Times:**  
Warp 1 - Warp 2: 0.208 sec  
Warp 2 - Warp 3: 0.333 sec  
Warp 3 - Warp 4: 1.26 sec  
Warp 4 - Warp 5: 1.812 sec  
Warp 5 - Warp 6: 1.937 sec  
Warp 6 - Warp 7: 2.093 sec  
Warp 7 - Warp 8: 2.887 sec  
Warp 8 - Warp 9: 3.643 sec  
Warp 9 - Warp 9.5: 8.54 sec  
Warp 9.5 - Warp 9.75: 9.894 sec  
Warp 9.75 - Warp 9.9: 20.517 sec

### Duration (Years)

**Standard:** 4 Years  
**Maximum:** 16 Years  
**Std. Ship Complement:** 451  
**Officers:** 77  
**Crew (Ensign Grade):** 374  
**Troops:** 0  
**Passengers:** 50  
**Emergency condition:** + 637

### Medical Facilities

**Doctors:** 3  
**Medical Staff:** 7  
**Operating Rooms:** 2  
**Beds:** 16

### Laboratories: 8

### Transporters Total: 11

1 Person: 0  
2 Person: 0  
6 Person: 4  
12 Person: 0  
22 Person: 4  
Small Cargo: 1  
Medium Cargo: 1  
Large Cargo: 0  
Super Cargo: 0

### Brigs: 19

### Replicators: 18

### Weapons Room: 1

**Tow Capacity:**  $3.67 \times 10^8$  mt  
**Max Range:**  $1.68 \times 10^5$  km

### Cargo Specification

**Standard Cargo Units:** 291  
**Cargo Capacity:** 14550 mt

### Shuttlecraft Specifications

**Docking Ports:** 3

**Shuttlecraft Bays Total:** 1

**Small Bay:** 1

**Medium Bay:** 0

**Large Bay:** 0

**Super Bay:** 0

**Shuttlecraft Standard:** 16

**Work Bays:** 1

**Travel Pods:** 1

**Aquatic Shuttle:** 1

**Light Shuttle:** 0

**Standard Shuttle:** 1

**Heavy Shuttle:** 1

**Cargo Shuttle:** 1

**Assault Shuttle:** 2

**Killer Bays:** 2

**Light Fighter:** 2

**Fighter:** 2

**Heavy Fighter:** 2

**Lifeboats:** 45

**Turbolift (8 person):** 26

**Lifeboat (10 person):** 14

**Lifeboat (20 person):** 6

**Lifeboat (30 person):** 0

### Cloaking Devices: 0

### Sensor Index Values:

**Planetary Survey:** 0.97

**Stellar Survey:** 0.86

**Short Range:** 0.98

**Long Range:** 0.88

**Navigation:** 1.12

**Special:** 1.94

### Computers: 2

**Type:** Daystrom Duetronic 1-NI/x

**Type:** Daystrom Duetronic 1-NI/p

### ECM Index: 1.12

### Shield Rating:

**Shield Index:** 0.45

**Holdoff Power:**  $1.53 \times 10^{12}$  W

**Refresh Rate:**  $4.35 \times 10^{11}$  W

**Breakdown Rate:**  $5.22 \times 10^{11}$  W

**Shield Dimensions (Meters)**

Length: 352.1 m

Width: 212.6 m

Height: 82.3 m

### Weapons

**Phaser Power Index:** 0.84

**Photon Power Index:** 0.00

**Vessel Power Index:** 0.32

### Weapon Placement:

**Beam (Phasers) Total:** 6 banks 2 each

**Output:**  $5 \times 10^{11}$  W 2  $5 \times 10^{11}$  W

**Range:**  $2.5 \times 10^5$  km

**Rate of Fire:** 30 ppm/Cont

**Forward Banks:** 2

**Rear Banks:** 0

**Port Banks:** 2

**Starboard Banks:** 2

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** N/A

**Stock:** N/A

**Range:** N/A

**Output:** N/A

**Rate of Fire:** N/A

**Forward Bay:** 0

**Rear Bay:** 0

**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

**Lower Bay:** 0

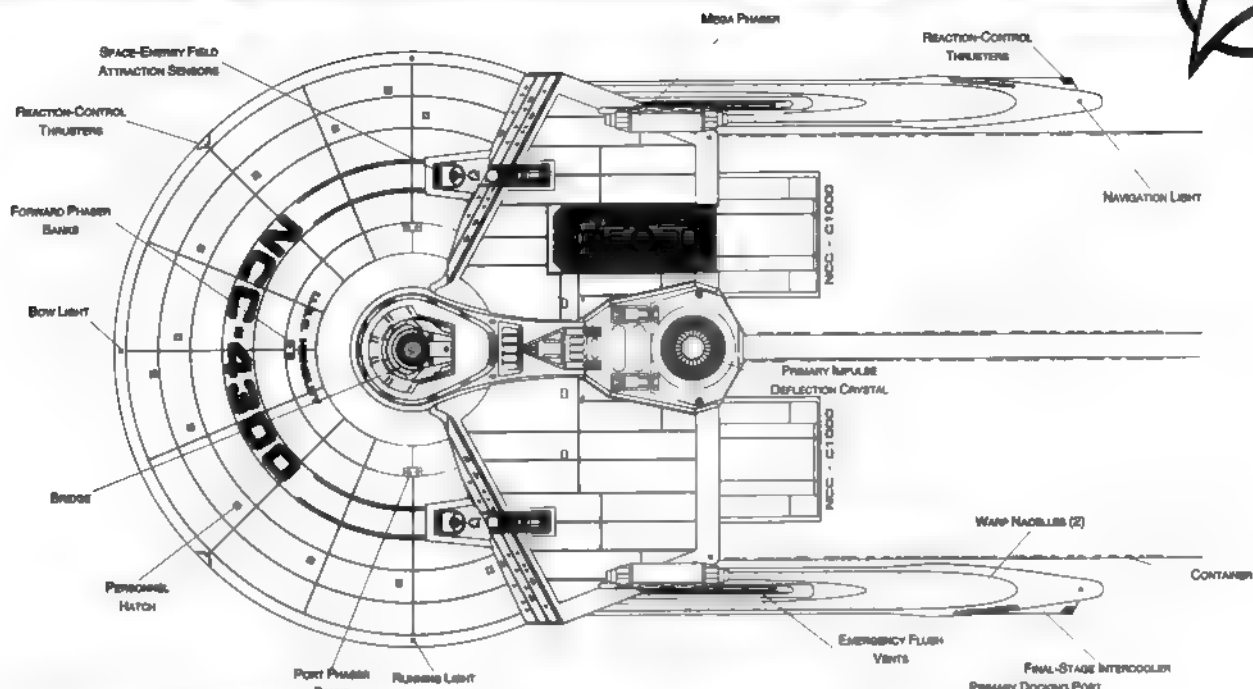
FEDERATION VESSEL



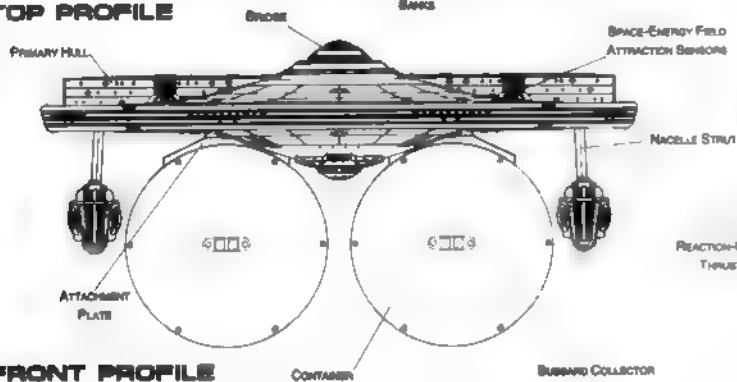
# HEAVY TRANSPORT / TUG



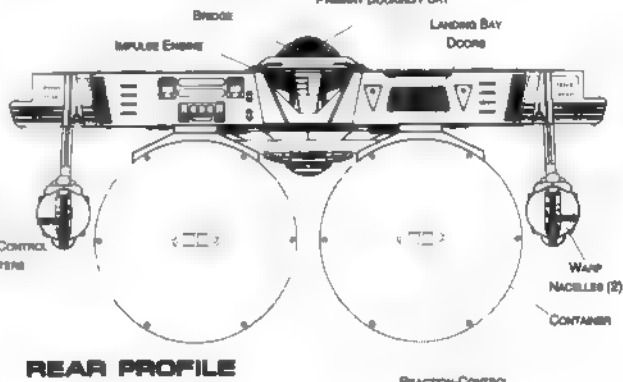
HENSLEY CLASS



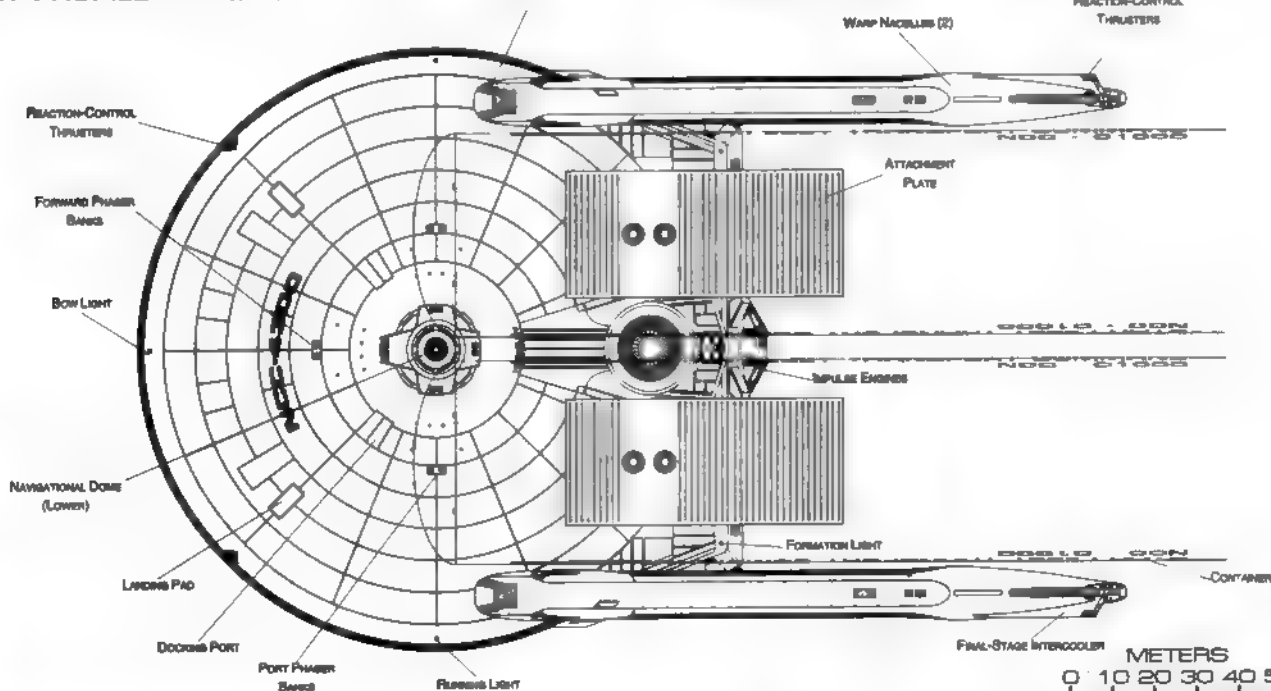
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:1800

FEDERATION VESSEL



# HEAVY TRANSPORT / TUG

## Ship Names

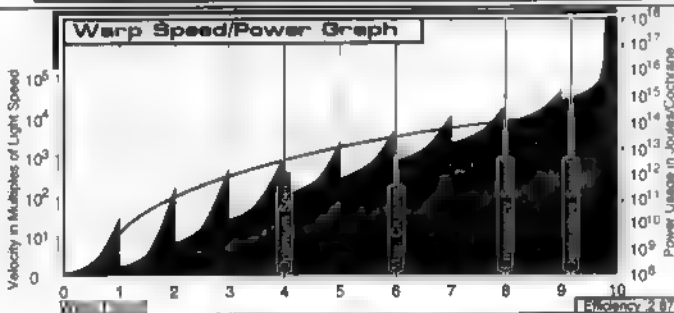
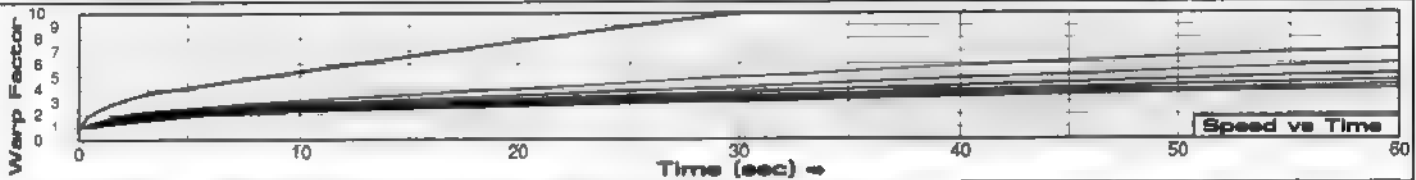
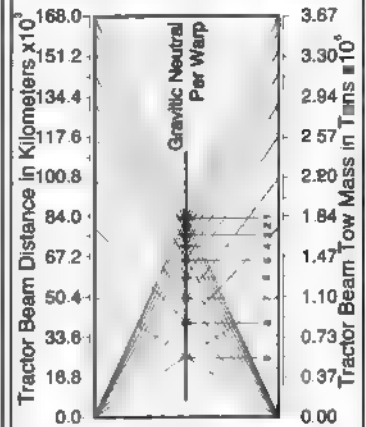
THE FOLLOWING SHIPS OF THE MK-V<sub>a</sub> CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.6

ABERDEEN •NCC-4357	DUNLAP •NCC-4372***	MANSFIELD •NCC-4370	STANNERS •NCC-4334
ALLAWAY •NCC-4310	EICHHORST •NCC-4336	MAYERS •NCC-4387***	STAR OF INDIA •NCC-4362
ALLEGOOD •NCC-4302	FLEICHMAN •NCC-4365	McCULLOUGH •NCC-4304	STODDARD •NCC-4379***
ALLISON •NCC-4381***	FRANCISCO •NCC-4363	McGONIGLE •NCC-4323	STRIPLING •NCC-4366
ARMIN •NCC-4338	FROHWEIN •NCC-4307	MEAD •NCC-4349	SYLVESTER •NCC-4325
BOHEME •NCC-4328	FULLER •NCC-4305	MEDLEY •NCC-4306	TERRY •NCC-4380
BOSNEA •NCC-4369	GRANT •NCC-4312	MEELER •NCC-4320	TORRES •NCC-4322
BOYET •NCC-4373***	GRELIER •NCC-4327	MORAVIA •NCC-4355	USHER •NCC-4343
BREMEN •NCC-4345	GRIZZLY •NCC-4395***	MOSELY •NCC-4316***	VAN WINKLE •NCC-4332
BROOKS •NCC-4359	HARVEY •NCC-4317	NATHAN •NCC-4341	VOYTEK •NCC-4374***
BURKES •NCC-4339	HENBECK •NCC-4380***	PALERMO •NCC-4368	WALTMAN •NCC-4331
BURNSIDE •NCC-4313	HENSLEY •NCC-4300*	PARKS •NCC-4386***	WELCH •NCC-4371***
CALDWELL •NCC-4394***	HULLER •NCC-4389***	PRIDMORE •NCC-4392***	WHITE SANDS •NCC-4351
CASEBOLT •NCC-4318	IAN •NCC-4346	PRUSSIA •NCC-4348	WHORTON •NCC-4391***
CASSIDY •NCC-4388***	ICCABOD •NCC-4340	PYLE •NCC-4384***	WILSON •NCC-4385***
CASTILE •NCC-4337	ISABELLA •NCC-4354	QUARLES •NCC-4350	WISELEY •NCC-4321
CATHCART •NCC-4364	JASPER •NCC-4326	QUINTELA •NCC-4375***	WOHLFELT •NCC-4315
CHAFFE •NCC-4335	JOETT •NCC-4333	RABAH •NCC-4311	WOODSINGER •NCC-4309
CHASE •NCC-4361	JONES •NCC-4356	REASORE •NCC-4353	YAUDE •NCC-4352
CHEFFER •NCC-4329	KAUFMANN •NCC-4301	RIDENOUR •NCC-4367	YOUNGBLOOD •NCC-4378***
CHELSEA •NCC-4342	KENNEDY •NCC-4303	ROGERS •NCC-4347	ZIERDT •NCC-4314
COPELAND •NCC-4358	KINGSLEY •NCC-4344	RUBLE •NCC-4324	
DAGGETT •NCC-4377***	KINNELLY •NCC-4383***	SANORONI •NCC-4390***	
DEERE •NCC-4319	LI-CHO •NCC-4376***	SOLAR •NCC-4330	
DEWETT •NCC-4382***	LONDON •NCC-4393***	STAIRHIEME •NCC-4308	

\*CLASS SHIP. \*\*LOST IN THE LINE OF DUTY. \*\*\*PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



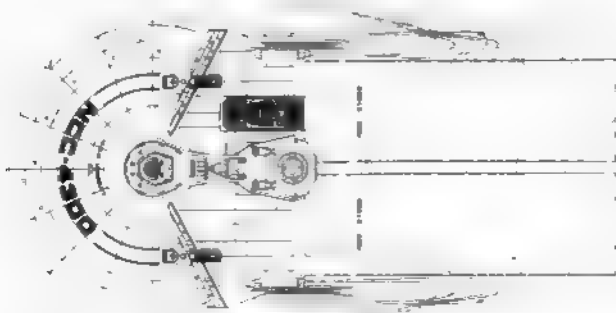
Field Length 525.78m  
Field Width 202.80m  
Field Height 85.76m



Front Warp Field Profile  
Cross Section Area 14814.18 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 32481.35 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 80615.69 m<sup>2</sup>

# CARGO DRONE

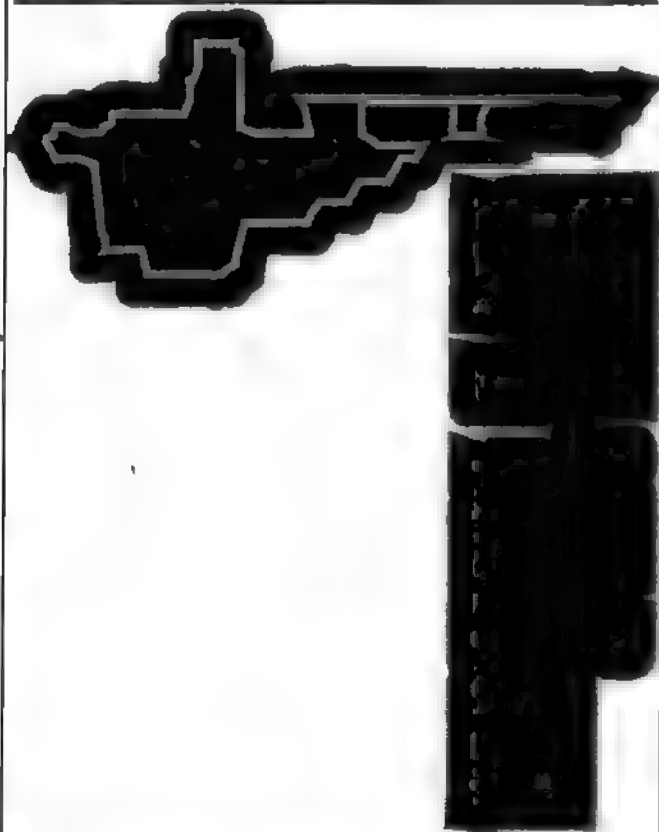


## General Information

**Specific Role:** The Pershing class Cargo Drone is used to transport low priority cargo between inner Federation planets. Generally these vessels can be found navigating their way through commercial trade-routes at warp six. The drone's turn-around time in port is extremely fast since it does have a crew requiring leave or supplies.

**Physical Description:** The boxy construction of the Cargo Drone hides the efficiency of it's design. The Central tower contains an auxiliary type (CD15/C R5) bridge, a medium hangar bay and computer core. A (SM52/12D) high gain sensor array is located immediately forward of the central tower. The (PH245/CD-1) primary hull consists mainly of standard storage with engineering section at the rear. The descending tower is the major cargo hold with hold number one and the light cargo hold located immediately forward. Two (DN5/C9) navigational deflectors are mounted on the front of the light cargo section. Holds two through five are located directly behind the lower tower in descending size. A tractor beam is mounted directly under hold number 5. The (M60/26-4H) intermix chamber is located between the the pylons with the matter/antimatter facilities at the rear. For sub-light propulsion, two (IRF35E/4-IR) single impulse drives are mounted to either side of the rear section. For warp propulsion, two (SW52/15CD) warp nacelles are mounted to either side of the engineering section on (DU/70-12F) pylons. No provisions have been made for jettisoning the warp core or nacelles since crew safety is not a concern. In the event of a warp core breach or catastrophic engine damage, a warning is broadcast on all frequencies describing the danger and distance required for safety purposes.

## Class Emblem



## Ship Silhouettes

Total Target Area 47441.00 m<sup>2</sup>



Top Silhouette  
Area 25031.98 m<sup>2</sup>



Port Silhouette  
Area 13197.98 m<sup>2</sup>

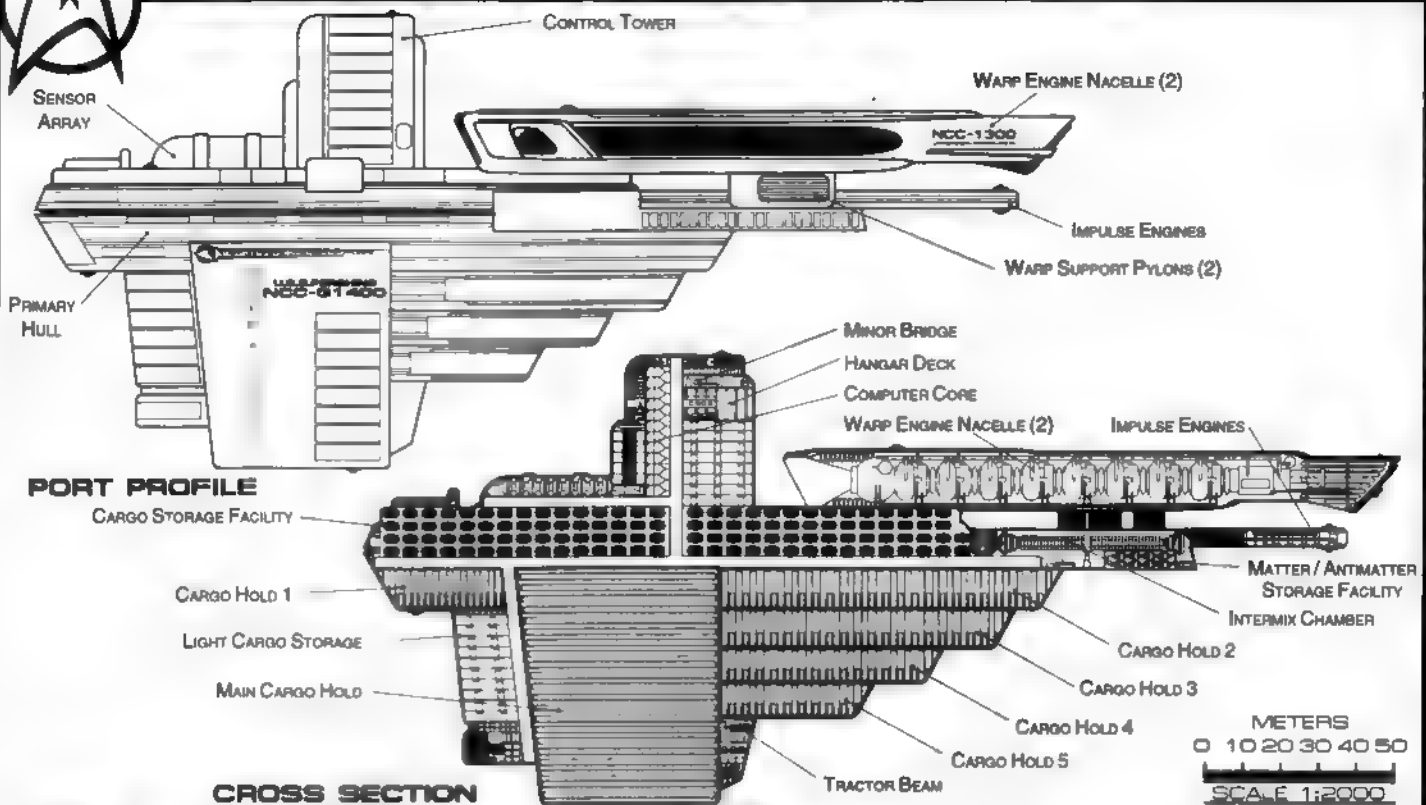


Front Silhouette  
Area 9811.38 m<sup>2</sup>



# CARGO DRONE

PERSHING CLASS



## Statistics

**Classification:** Cargo Drone

**Category:** Cargo Vessel

**Class:** Pershing

**Type:** Class 6

**Model:** MK6-IV

**Naval Construction Contract:** G1400

**Number Proposed:** 100

**Number Constructed:** 98

**Number In Service:** 96

**Number Lost:** 2

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 281.30 m

Width: 120.18 m

Height: 115.68 m

**Primary Hull Dimensions (Meters)**

Length: 246.90 m

Width: 104.60 m

Height: 115.68 m

**Secondary Hull Dimensions (Meters)**

Length: N/A m

Width: N/A m

Height: N/A m

**Warp Unit Dimensions (Meters)**

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

**Displacement (Metric Tons)**

Light: 206930 mt

Standard: 221702 mt

Full Load: 247491 mt

**Performance:** mt

**Impulse Units:** Dual Unit (IRF35E/4-IR)

**Impulse Engine Output:** 3.90E+13 W

**Impulse Power Index:** 0.52

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.427 sec

0.25-0.50 Impulse: 0.673 sec

0.50-0.75 Impulse: 0.898 sec.

0.75-Full Impulse: 1.123 sec.

**Warp Units:** 2 Nacelle Units (SW52/15CD)

**Warp Engine Output:** 3.02E+15 W

**Warp Power Index:** 0.52

**Optimum Speed:** 4

**Max. Safe Cruising:** 6

**Emergency Speed:** 6.5

**Max. Speed:** 7

**Destructive Speed:** 7.2

**Acceleration Power:** 3

**Acceleration Times:**

Warp 1 - Warp 2: 0.387 sec.

Warp 2 - Warp 3: 0.619 sec

Warp 3 - Warp 4: 2.341 sec

Warp 4 - Warp 5: 3.366 sec

Warp 5 - Warp 6: 3.598 sec

Warp 6 - Warp 7: 3.888 sec.

Warp 7 - Warp 8: 4.891 sec.

Warp 8 - Warp 9: 7.138 sec.

Warp 9 - Warp 9.5: 15.862 sec.

Warp 9.5 - Warp 9.75: 18.377 sec.

Warp 9.75 - Warp 9.9: 38.106

**Duration (Years)**

Standard: 7 Years

Maximum: 28 Years

**Std. Ships Complement:** 0

**Officers:** 0

**Crew (Ensign Grade):** 0

**Troops:** 0

**Passengers:** 0

**Emergency condition:** + 0

**Medical Facilities:**

**Doctors:** 0

**Nurses:** 0

**Operating Rooms:** 0

**Beds:** 0

**Laboratories:** 7

**Transporters Total:** 8

**1 Person:** 0

**2 Person:** 0

**6 Person:** 4

**12 Person:** 0

**22 Person:** 0

**Small Cargo:** 2

**Medium Cargo:** 2

**Large Cargo:** 0

**Super Cargo:** 0

**Bridge:** 13

**Replicators:** 17

**Tractor Beams:**

**Tow Capacity:** 3.64E+06 mt

**Max Range:** 1.38E+05 km

**Cargo Specification:**

**Standard Cargo Units:** 3500

**Cargo Capacity:** 175000 mt

**Shuttlecraft Specifications:**

**Docking Ports:** 1

**Shuttlecraft Bays Total:** 1

**Small Bay:** 1

**Medium Bay:** 0

**Large Bay:** 0

**Super Bay:** 0

**Shuttlecraft Standard:** 0

**Work Bees:** 0

**Travel Pods:** 0

**Aquatic Shuttle:** 0

**Light Shuttle:** 0

**Standard Shuttle:** 0

**Heavy Shuttle:** 0

**Cargo Shuttle:** 0

**Assault Shuttle:** 0

**Killer Bees:** 0

**Light Fighter:** 0

**Fighter:** 0

**Heavy Fighter:** 0

**Lifeboats:** 3

**Turbolift (8 person):** 3

**Lifeboat (10 person):** 0

**Lifeboat (20 person):** 0

**Lifeboat (30 person):** 0

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 0.0413

**Stellar Survey:** 0.4125

**Short Range:** 0.0825

**Long Range:** 0.8250

**Navigation:** 0.0699

**Special:** 0.0000

**Computers:** 2

**Type:** Daystrom Duotronic III:d

**Type:** Daystrom Duotronic II:c

**ECM Index:** 0.10

**Shield Rating:**

**Shield Index:** 0.87

**Holdoff Power:** 9.81E+11 W

**Refresh Rate:** 2.79E+11 W

**Breakdown Rate:** 3.35E+11 W

**Shield Dimensions (Meters)**

**Length:** 391.95 m

**Width:** 180.24 m

**Height:** 173.52 m

**Weapons:**

**Phaser Power Index:** 0.000

**Photon Power Index:** 0.000

**Vessel Power Index:** 0.000

**Weapon Placement:**

**Beam (Phasers) Total:** 0 banks

**Output:** N/A

**Range:** N/A km

**Rate of Fire:** N/A

**Forward Banks:** 0

**Rear Banks:** 0

**Port Banks:** 0

**Starboard Banks:** 0

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** 0 Bays

**Stock:** N/A

**Range:** N/A

**Output:** N/A

**Rate of Fire:** N/A

**Forward Bay:** 0

**Rear Bay:** 0

**Port Bay:** 0

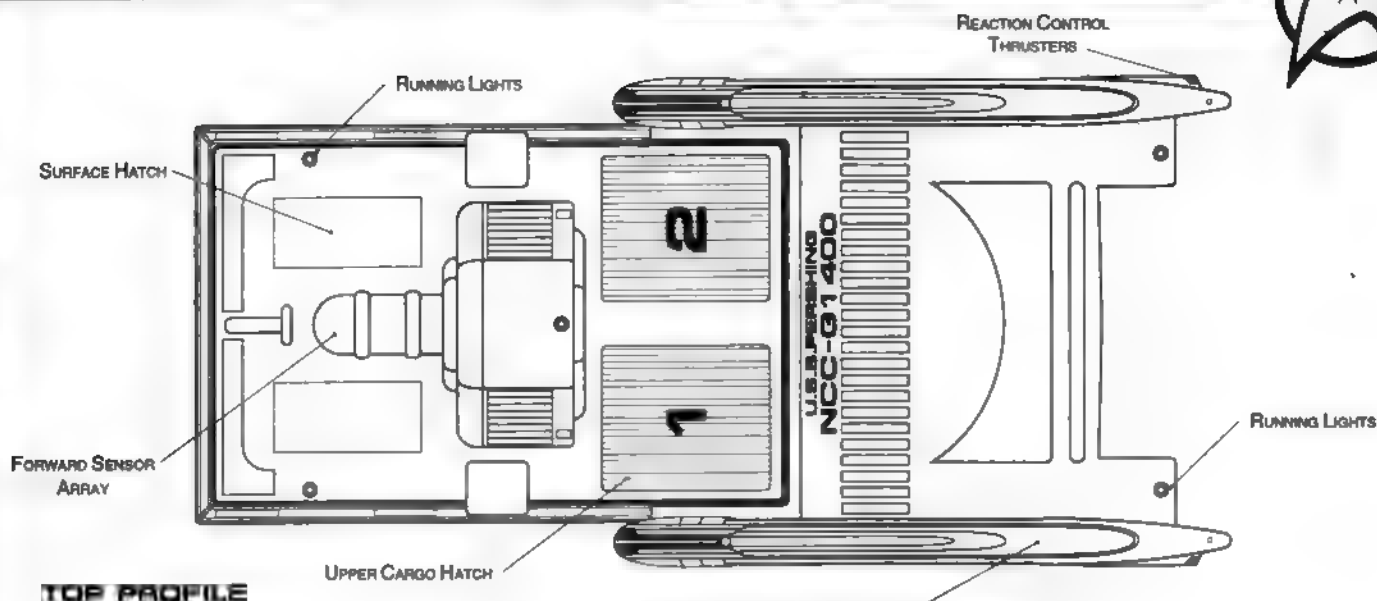
**Starboard Bay:** 0

**Upper Bay:** 0

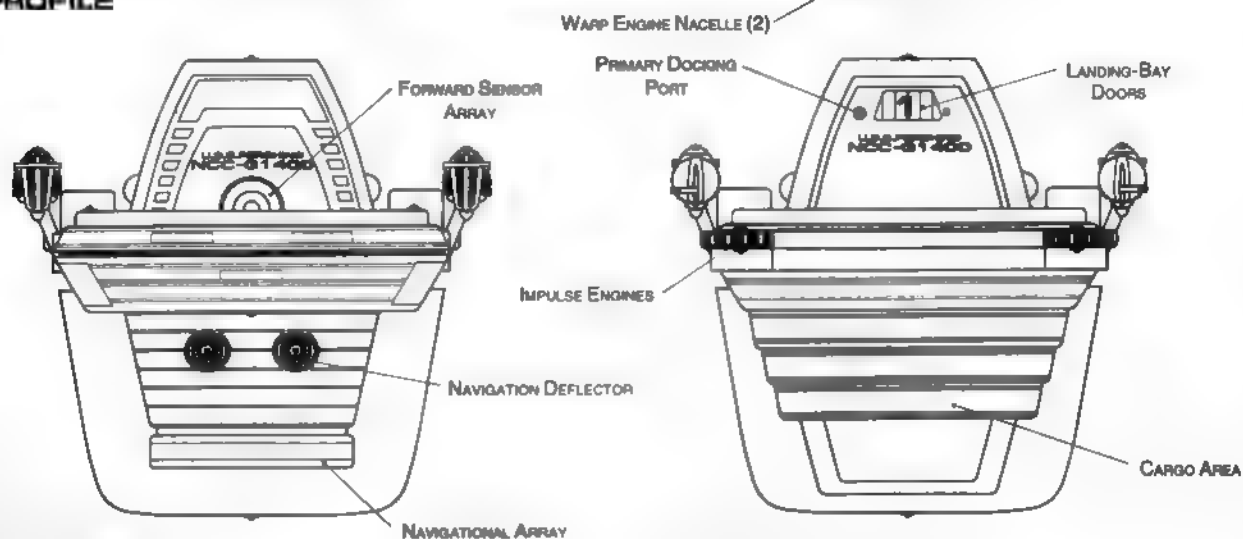
**Lower Bay:** 0

FEDERATION VESSEL

# CARGO DRONE

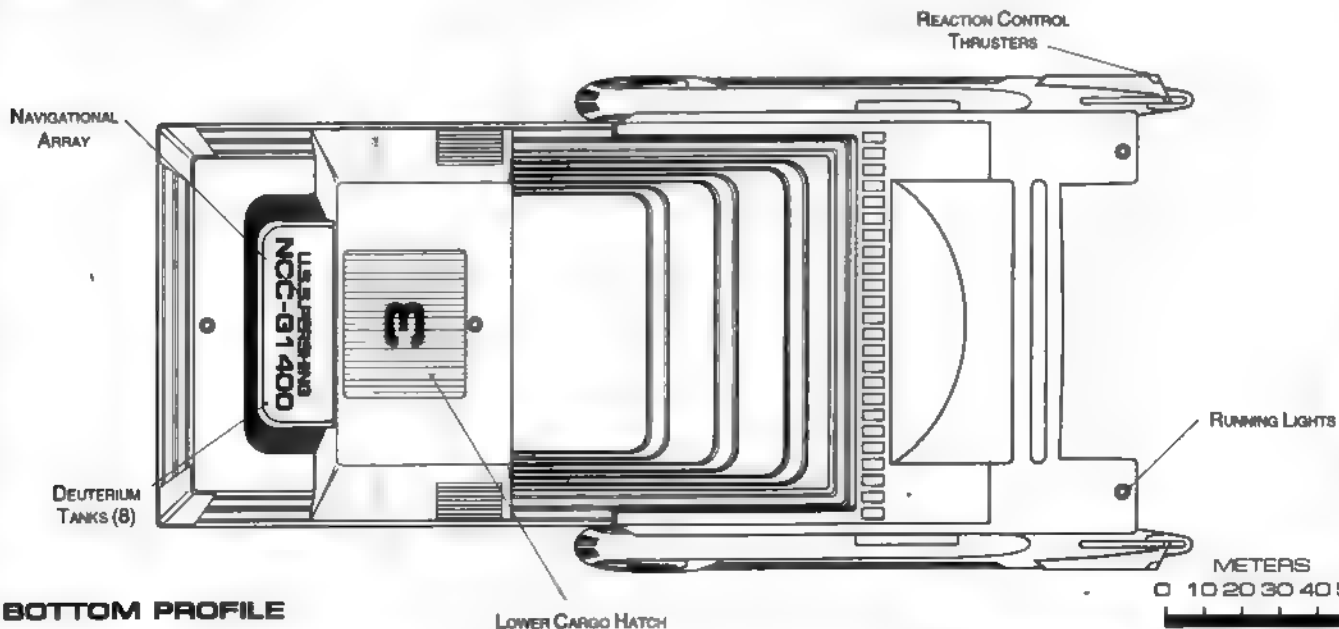


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:2000



# CARGO DRONE

## Ship Names

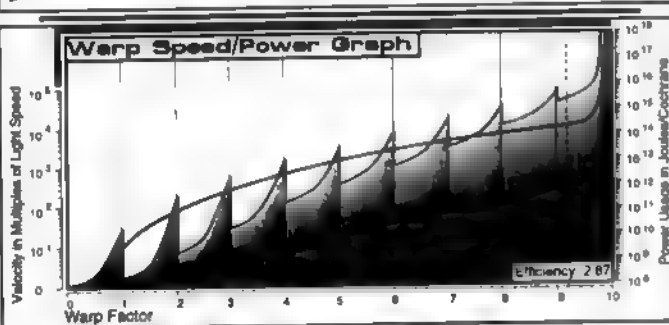
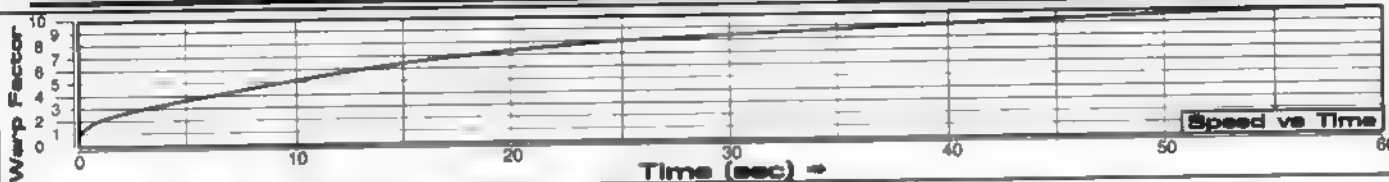
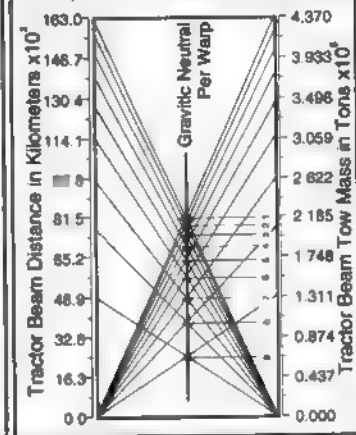
THE FOLLOWING SHIPS OF THE MK6-IV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2285.2

PERSHING • NCC-G1400	PERSHING25 • NCC-G1425	PERSHING50 • NCC-G1450	PERSHING75 • NCC-G1475
PERSHING1 • NCC-G1401	PERSHING26 • NCC-G1426	PERSHING51 • NCC-G1451	PERSHING76 • NCC-G1476
PERSHING2 • NCC-G1402	PERSHING27 • NCC-G1427	PERSHING52 • NCC-G1452	PERSHING77 • NCC-G1477
PERSHING3 • NCC-G1403	PERSHING28 • NCC-G1428	PERSHING53 • NCC-G1453	PERSHING78 • NCC-G1478
PERSHING4 • NCC-G1404	PERSHING29 • NCC-G1429	PERSHING54 • NCC-G1454	PERSHING79 • NCC-G1479
PERSHING5 • NCC-G1405	PERSHING30 • NCC-G1430	PERSHING55 • NCC-G1455	PERSHING80 • NCC-G1480
PERSHING6 • NCC-G1406	PERSHING31 • NCC-G1431	PERSHING56 • NCC-G1456	PERSHING81 • NCC-G1481
PERSHING7 • NCC-G1407	PERSHING32 • NCC-G1432	PERSHING57 • NCC-G1457	PERSHING82 • NCC-G1482
PERSHING8 • NCC-G1408	PERSHING33 • NCC-G1433	PERSHING58 • NCC-G1458	PERSHING83 • NCC-G1483
PERSHING9 • NCC-G1409	PERSHING34 • NCC-G1434	PERSHING59 • NCC-G1459	PERSHING84 • NCC-G1484
PERSHING10 • NCC-G1410	PERSHING35 • NCC-G1435	PERSHING60 • NCC-G1460	PERSHING85 • NCC-G1485
PERSHING11 • NCC-G1411	PERSHING36 • NCC-G1436	PERSHING61 • NCC-G1461	PERSHING86 • NCC-G1486
PERSHING12 • NCC-G1412	PERSHING37 • NCC-G1437	PERSHING62 • NCC-G1462	PERSHING87 • NCC-G1487
PERSHING13 • NCC-G1413	PERSHING38 • NCC-G1438	PERSHING63 • NCC-G1463	PERSHING88 • NCC-G1488
PERSHING14 • NCC-G1414	PERSHING39 • NCC-G1439	PERSHING64 • NCC-G1464	PERSHING89 • NCC-G1489
PERSHING15 • NCC-G1415	PERSHING40 • NCC-G1440	PERSHING65 • NCC-G1465	PERSHING90 • NCC-G1490
PERSHING16 • NCC-G1416	PERSHING41 • NCC-G1441	PERSHING66 • NCC-G1466	PERSHING91 • NCC-G1491
PERSHING17 • NCC-G1417	PERSHING42 • NCC-G1442	PERSHING67 • NCC-G1467	PERSHING92 • NCC-G1492
PERSHING18 • NCC-G1418	PERSHING43 • NCC-G1443	PERSHING68 • NCC-G1468	PERSHING93 • NCC-G1493
PERSHING19 • NCC-G1419	PERSHING44 • NCC-G1444	PERSHING69 • NCC-G1469	PERSHING94 • NCC-G1494
PERSHING20 • NCC-G1420	PERSHING45 • NCC-G1445	PERSHING70 • NCC-G1470	PERSHING95 • NCC-G1495
PERSHING21 • NCC-G1421	PERSHING46 • NCC-G1446	PERSHING71 • NCC-G1471	PERSHING96 • NCC-G1496
PERSHING22 • NCC-G1422	PERSHING47 • NCC-G1447	PERSHING72 • NCC-G1472	PERSHING97 • NCC-G1497
PERSHING23 • NCC-G1423	PERSHING48 • NCC-G1448	PERSHING73 • NCC-G1473	PERSHING98 • NCC-G1498
PERSHING24 • NCC-G1424	PERSHING49 • NCC-G1449	PERSHING74 • NCC-G1474	PERSHING99 • NCC-G1499

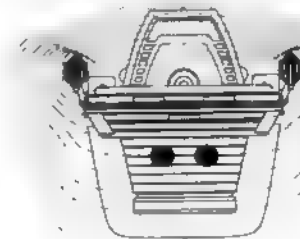
CLASS SHIP. "LOST IN THE LINE OF DUTY." "PROPOSED. ALL NAMES PRECEDED WITH U.S.S.

## Tractor Beam Specifications

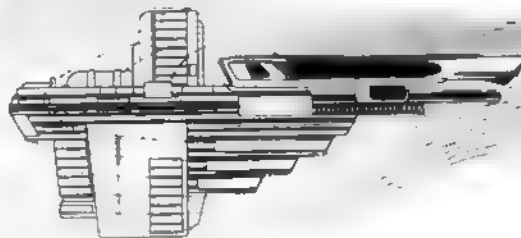
Primary Tractor Beam Load Calculator



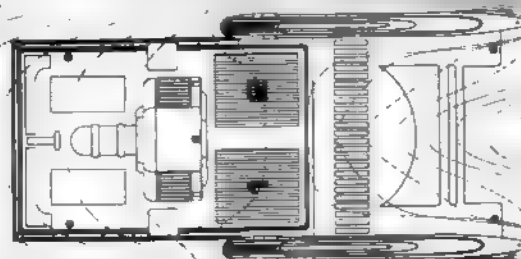
Field Length 608.89m  
Field Width 172.27m  
Field Height 125.81m



Front Warp Field Profile  
Cross Section Area 17785.90 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 51926.34 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 78082.20 m<sup>2</sup>

## WARP FIELDS

# RESEARCH VESSEL



## General Information

**Specific Role:** The Research Vessel is a small efficient starship used for intensive research. Adjustable band-width sensors and extensive research laboratories throughout the vessel give it a comprehensive research platform. Despite this vessel's small size, its contributions to the research community have earned it a highly respectable reputation.

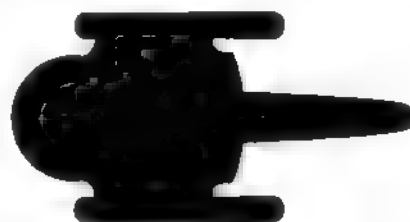
**Physical Description:** The (SH103/R-E4) ship is equipped with additional research systems and laboratories. The vessel is equipped with a (BF5/R L5) bridge which incorporates additional research instrumentation. On the lower part of the hull is the (SM15/5T) main sensor array and (DN2/3D) navigational dome. Positioned forward of the bridge is a (BP2/30 2C) phaser bank. At the rear of the primary hull are (ISR10E/3-GF) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessel's warp fields are generated by two (SU38/1-2JL) warp nacelles attached to each side of the hull. Running horizontally between the nacelles is the (M20/1-2D) intermix chamber. Installed to the rear of the hull are the (AM3/15 2A) matter/antimatter storage tanks for emergency jettisoning. On the front of the hull is a small hangar deck. Slung underneath the primary hull by two (DT/30-15G) connecting dorsals is a (SH153/R D2) secondary hull. The secondary hull is primarily used for research and contains most of the vessel's sensors and research facilities. On the lower front of the secondary hull is the (SME256/3D) primary sensor array. Facing rearward on the secondary hull is a (SME79/9Q) secondary sensor array. In the event of an emergency, the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

## Class Emblem



## Ship Silhouettes

Total Target Area 13144.38 m<sup>2</sup>



Top Silhouette  
Area 7753.16 m<sup>2</sup>



Port Silhouette  
Area 3889.4 m<sup>2</sup>



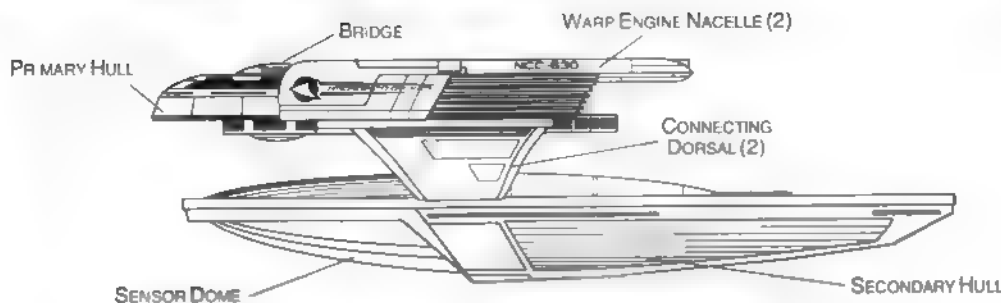
Front Silhouette  
Area 1491.80 m<sup>2</sup>



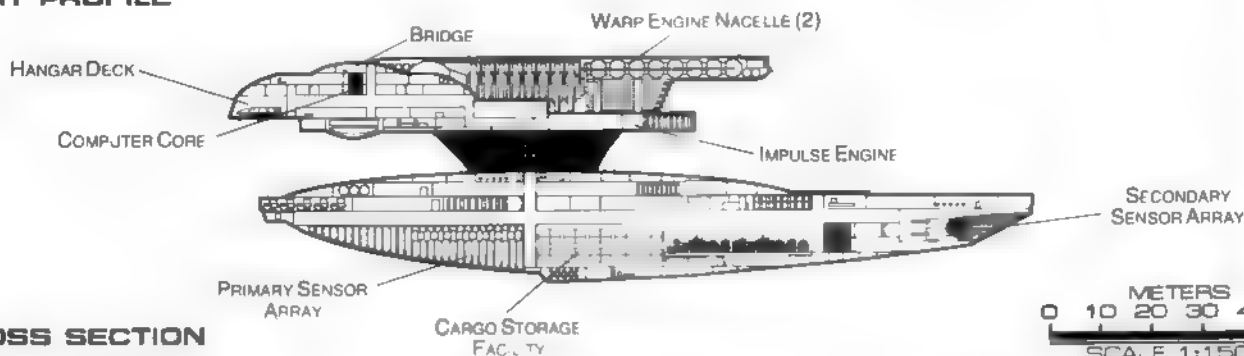


# RESEARCH VESSEL

GAGARIN CLASS



PORT PROFILE



CROSS SECTION

## Statistics

**Classification:** Research Vessel

**Category:** Research Vessel

**Class:** Gagarin

**Type:** Class 2

**Model:** MK-V

**Naval Construction Contract:** 600

**Number Proposed:** 95

**Number Constructed:** 93

**Number in Service:** 91

**Number Lost:** 2

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 159.83m

Width: 82.97m

Height: 44.34m

**Primary Hull Dimensions (Meters)**

Length: 92.73m

Width: 82.97m

Height: 15.22m

**Secondary Hull Dimensions (Meters)**

Length: 153.72m

Width: 21.94m

Height: 22.20m

**Warp Unit Dimensions (Meters)**

Length: 83.09m

Width: 10.85m

Height: 12.17m

**Displacement (Metric Tons)**

Light: 37,438mt

Standard: 40,111mt

Full Load: 44,776mt

**Performance:**

**Impulse Units:** Dual Unit (SR10E/3-GF)

**Impulse Engine Output:**  $6.0 \times 10^{12}$  W

**Impulse Power Index:** 4.92

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.162 sec.

0.25-0.50 Impulse: 0.244 sec.

0.50-0.75 Impulse: 0.325 sec.

0.75-Full Impulse: 0.406 sec.

**Warp Units:** 2 Nacelle Units (SU38/1-2JL)

**Warp Engine Output:**  $1.92 \times 10^{14}$  W

**Warp Power Index:** 0.79

**Optimum Speed:** Warp 4

**Max Safe Cruising:** Warp 5

**Emergency Speed:** Warp 7

**Max Speed:** Warp 8

**Destructive Speed:** Warp 8.5

**Acceleration Power:** 3.0

**Acceleration Times:**

Warp 1 - Warp 2: 0.254 sec.

Warp 2 - Warp 3: 0.406 sec.

Warp 3 - Warp 4: 1.529 sec.

Warp 4 - Warp 5: 2.208 sec.

Warp 5 - Warp 6: 2.360 sec.

Warp 6 - Warp 7: 2.551 sec.

Warp 7 - Warp 8: 3.274 sec.

Warp 8 - Warp 9: 4.683 sec.

Warp 9 - Warp 9.5: 10.406 sec.

Warp 9.5 - Warp 9.75: 12.056 sec.

Warp 9.75 - Warp 9.9: 25.000 sec.

**Duration (Years)**

Standard: 6 Years

Maximum: 24 Years

**Std. Ship Complement:** 111

**Officers:** 18

**Crew (Ensign Grade):** 90

**Troops:** 3

**Passengers:** 10

**Emergency condition:** +150

**Medical Facilities:**

**Doctors:** 2

**Nurses:** 11

**Operating Rooms:** 2

**Beds:** 11

**Laboratories:** 6

**Transporters Total:** 2

1 Person: 0

2 Person: 0

6 Person: 1

12 Person: 0

22 Person: 1

Small Cargo: 0

Medium Cargo: 0

Large Cargo: 0

Super Cargo: 0

**Brigs:** 2

**Replicators:** 3

**Tractor Beams:** 1

**Tow Capacity:**  $8.83 \times 10^5$  mt

**Max Range:**  $4.40 \times 10^4$  km

**Cargo Specifications:**

**Standard Cargo Units:** 70

**Cargo Capacity:** 3,500mt

**Shuttlecraft Specifications:**

**Docking Ports:** 1

**Shuttlecraft Bays Total:** 1

Small Bay: 1

Medium Bay: 0

Large Bay: 0

Super Bay: 0

**Shuttlecraft Standard:** 15

**Work Bees:** 1

**Travel Pods:** 0

**Aquatic Shuttle:** 0

**Light Shuttle:** 1

**Standard Shuttle:** 3

**Survey Shuttle:** 3

**Heavy Shuttle:** 0

**Cargo Shuttle:** 1

**Assault Shuttle:** 4

**Killer Bees:** 1

**Fighter:** 0

**Lifeboats:** 11

**Turbolift (8 person):** 10

**Lifeboat (10 person):** 1

**Lifeboat (20 person):** 0

**Lifeboat (30 person):** 0

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 0.8979

**Stellar Survey:** 1.5759

**Short Range:** 0.7147

**Long Range:** 1.2543

**Navigation:** 0.3980

**Special:** 0.3465

**Computers:** 2

**Type:** Daysstrom Duotronic 11:d

**Type:** Daysstrom Duotronic 11:c

**ECM Index:** 0.89

**Shield Rating:**

**Shield Index:** 3.57

**Holdoff Power:**  $2.35 \times 10^{12}$  W

**Refresh Rate:**  $8.68 \times 10^{11}$  W

**Breakdown Rate:**  $8.01 \times 10^{11}$  W

**Shield Dimensions (Meters)**

Length: 191.80m

Width: 99.56m

Height: 53.21m

**Weapons:**

**Phaser Power Index:** 0.547

**Photon Power Index:** 0.00

**Vessel Power Index:** 0.270

**Weapon Placement:**

**Beam (Phasers) Total:** 1 banks 2 each

Output:  $5.0 \times 10^{11}$  W /  $2.5 \times 10^{11}$  W

Range:  $2.5 \times 10^5$  km

Rate of Fire: 30 ppm / Cont

**Forward Banks:** 1

**Rear Banks:** 0

**Port Banks:** 0

**Starboard Banks:** 0

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (MegaPhasers) Total:** 0

Output: N/A

Range: N/A

Rate of Fire: N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Torpedoes (Photon) Total:** N/A

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

**Forward Bay:** 0

**Rear Bay:** 0

**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

**Lower Bay:** 0

FEDERATION VESSEL

# RESEARCH VESSEL



GAGARIN CLASS

PHASER BANK

DEFLECTOR GRID

EMERGENCY  
FLUSH VENTS

REACTION CONTROL  
THRUSTER

TOP PROFILE

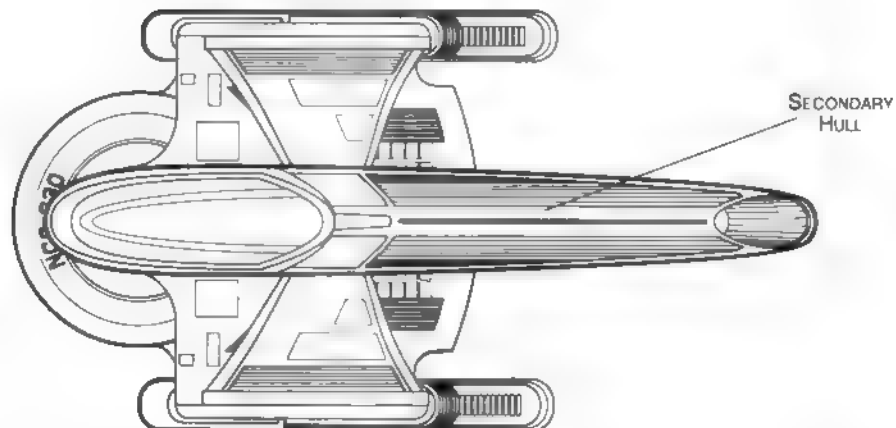
HANGAR DECK

IMPULSE ENGINES

REAR SENSOR  
ARRAY

FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:1500

FEDERATION VESSEL



# RESEARCH VESSEL

## Ship Names

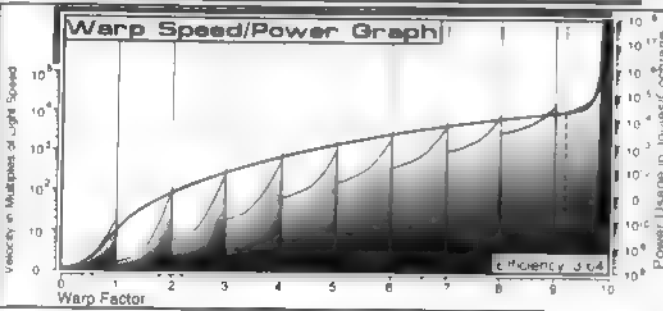
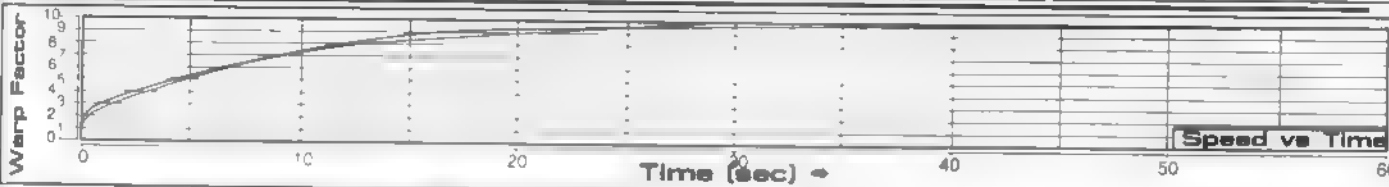
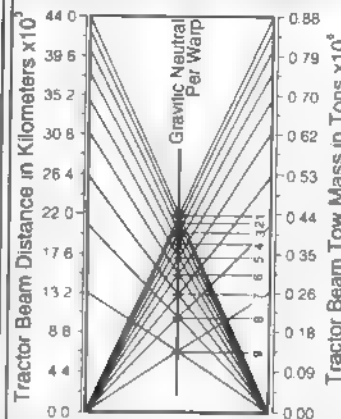
THE FOLLOWING SHIPS OF THE MK-V CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2288.2

CARPEN +NCC-633	KNOBE +NCC-692	NOWELL +NCC-643	ROBINETT +NCC-640
COOPER +NCC-635	KOPP +NCC-677	NUEGEBAUER +NCC-691	RONHAUSEN +NCC-655
EASTER +NCC-636**	KRUSINSKY +NCC-645	NZERE +NCC-665	ROTAURIS +NCC-682
ESPINOSA +NCC-611	KUBOTA +NCC-601	OBREGON +NCC-615	ROUSSEAU +NCC-670
FARRIER +NCC-622	KUO-CHING +NCC-667	OLIPHANT +NCC-625	SAPIEN +NCC-663
FILLIPONE +NCC-616	KURATKO +NCC-619	OMOHUNDRO +NCC-678	SATO +NCC-680
FIRSICK +NCC-604	KYRE +NCC-658	ORUM +NCC-683	SCHIRRA +NCC-634
GAGARIN +NCC-630*	LACROSSE +NCC-674	OTT +NCC-658	SCRIBNER +NCC-673**
GALLAWAY +NCC-628	LALONDE +NCC-662	OWINYO +NCC-668	SHEPARD +NCC-631
GARIBALDO +NCC-607	LIBBY +NCC-653	OYEN +NCC-610	SPARLING +NCC-678
GLENN +NCC-632	LINDSTROM +NCC-603	O'QUINN +NCC-689	STAFFORD +NCC-618
GRASSOM +NCC-638	LINECUM +NCC-627	PAIZ +NCC-617	STANDRIDGE +NCC-612
HALVERSON +NCC-602	LIN-CHI-PAN +NCC-609	PARISI +NCC-606	STRAUB +NCC-614
HAMPTON +NCC-613	LOCKHART +NCC-649	PARKHILL +NCC-624	TARKENTON +NCC-659
HARDGRAVE +NCC-694***	LOWDERMILK +NCC-684	PARUCHURI +NCC-641	TERESHKOVA +NCC-637
HARINDEN +NCC-628	LOX +NCC-693***	PATENTOTE +NCC-666	THAXTON +NCC-644
HARRINGER +NCC-681	MAGEE +NCC-690	PAVELKA +NCC-608	TITOV +NCC-639
HARTGRAVES +NCC-642	MAKEWICZ +NCC-669	PEACOCK +NCC-654	TOSCANO +NCC-650
HARVISON +NCC-684	MANAHAN +NCC-657	PEIKERT +NCC-686	VASEK +NCC-652
HASS +NCC-651	MANASCO +NCC-623	PUTUMBAKA +NCC-621	VILLALOBOS +NCC-648
INGLESIA +NCC-629	MARQUIS +NCC-605	QAZI +NCC-646	
IONS +NCC-647	MCADEN +NCC-679	QUATTLEBAUM +NCC-672	
JANOW +NCC-680	NIX +NCC-685	QUIJENO +NCC-661	
JARAMILLO +NCC-671	NONWEILER +NCC-675	REAGOR +NCC-600	
JEZESICK +NCC-687	NORVELLE +NCC-688	RIOZ +NCC-620	

\*CLASS SHIP. \*\*LOST IN THE LINE OF DUTY. \*\*\*PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



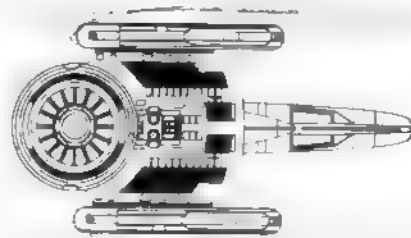
Field Length 495.37m  
Field Width 116.43m  
Field Height 79.44m



Front Warp Field Profile  
Cross Section Area 7208.00 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 25918.75 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 45597.20 m<sup>2</sup>

## WARP FIELDS

# TRANSPORT SHIP



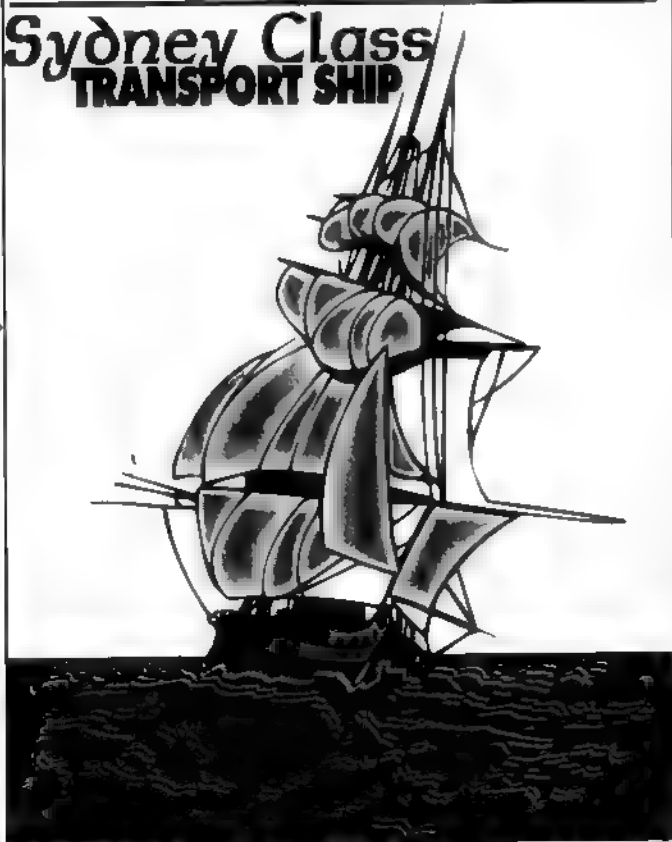
## General Information

**Specific Role:** The Sydney Class Transport Ship is a light-duty interstellar capable personnel/cargo transport vessel. Comfortable accommodations for up to 200 passengers and moderate cargo storage make this Starfleet affiliated vessel one of the most preferable ships for extended travel. Due to its moderate armament, this class vessel avoids combat. The Sydney Class transport is often used for Starfleet Cadet training and familiarization with space-craft.

**Physical Description:** The (BS10/T-U2) bridge is centered on top of the Transport's bulbous wedge shaped hull. A (SQ8/A10) rectangular navigational deflector is mounted on the nose of vessel. Directly behind the bridge are two (NA5/S2) navigational arrays. This class vessel has four (BP2/60-2T) phaser banks, located over and under the navigational array and one on each side of the ship just forward of the sensor arrays. The (IRF35E/8-IR) Impulse drive is located on the rear section of the vessel over the main cargo hold above the rear cargo hatches. Immediately underneath the rear cargo doors is a small hangar bay. For warp propulsion two (SW45/1-5SH) nacelles are mounted on (DU/22-3F) support pylons on either side of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated, the transport can maneuver on impulse power for extended periods of time.

### Class Emblem

**Sydney Class  
TRANSPORT SHIP**



### Ship Silhouettes

Total Target Area 38185.47 m<sup>2</sup>



Top Silhouette  
Area 19958.08 m<sup>2</sup>



Port Silhouette  
Area 8570.34 m<sup>2</sup>

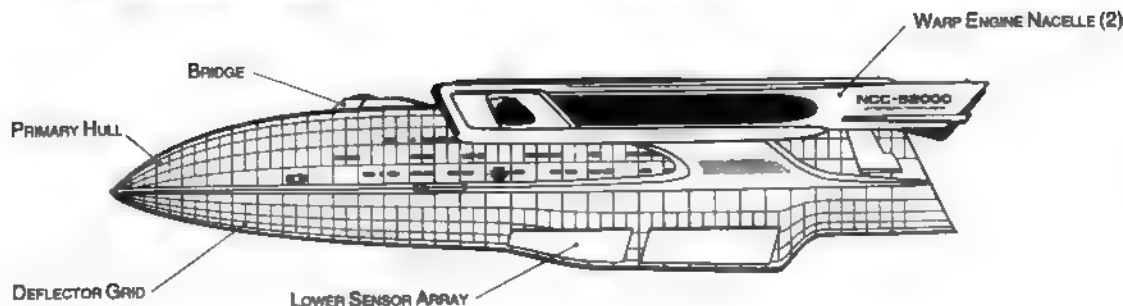


Front Silhouette  
Area 3539.05 m<sup>2</sup>

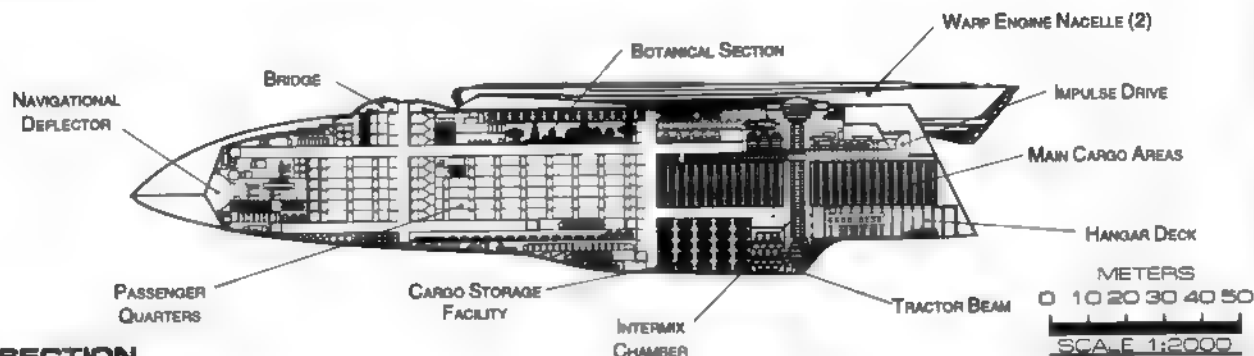


# TRANSPORT SHIP

SYDNEY CLASS



PORT PROFILE



CROSS SECTION

## Statistics

**Classification:** Transport Ship  
**Category:** Cargo Vessel  
**Line:** Sydney  
**Type:** Class2  
**Model:** MK2-XX  
**Naval Construction Contract:** 82000  
**Number Proposed:** 79  
**Number Constructed:** 79  
**Number in Service:** 77  
**Number Lost:** 2

### Dimensions:

**Overall Dimensions (Meters)**  
Length: 235.30 m  
Width: 120.84 m  
Height: 51.09 m

**Primary Hull Dimensions (Meters)**  
Length: 223.44 m  
Width: 77.69 m  
Height: 48.21 m

**Secondary Hull Dimensions (Meters)**  
Length: N/A m  
Width: N/A m  
Height: N/A m

**Warp Unit Dimensions (Meters)**  
Length: 147.60 m  
Width: 12.63 m  
Height: 18.32 m

**Displacement (Metric Tons)**  
Light: 170587 mt  
Standard: 182765 mt  
Full Load: 204024 mt

### Performance:

Impulse Units: Dual Unit (IRF35E/B-IR)  
Impulse Engine Output:  $3.90E+13$  W  
Impulse Power Index: 0.83  
Max Cruising: C  
Acceleration Rate:  
0.00-0.25 Impulse: 0.352 sec.  
0.25-0.50 Impulse: 0.555 sec.  
0.50-0.75 Impulse: 0.740 sec.  
0.75-Full Impulse: 0.926 sec  
Warp Units: 2 Nacelle Units (SW45/1-SSH)  
Warp Engine Output:  $3.02E+15$  W  
Warp Power Index: 0.63

Optimum Speed: 4  
Max. Safe Cruising: 6  
Emergency Speed: 8  
Max. Speed: 8.2  
Destructive Speed: 8.5  
Acceleration Power: 3  
Acceleration Times:  
Warp 1 - Warp 2: 0.319 sec  
Warp 2 - Warp 3: 0.510 sec  
Warp 3 - Warp 4: 1.930 sec  
Warp 4 - Warp 5: 2.775 sec  
Warp 5 - Warp 6: 2.986 sec  
Warp 6 - Warp 7: 3.205 sec  
Warp 7 - Warp 8: 4.114 sec  
Warp 8 - Warp 9: 5.884 sec  
Warp 9 - Warp 9.5: 13.076 sec  
Warp 9.5 - Warp 9.75: 15.149 sec  
Warp 9.75 - Warp 9.9: 31.415

### Duration (Years)

Standard: 7 Years  
Maximum: 28 Years

### Std. Ship Complement: 82

Officers: 14  
Crew (Ensign Grade): 68  
Troops: 0  
Passengers: 200  
Emergency condition: + 358,422

### Medical Facilities:

Doctors: 3  
Nurses: 7  
Operating Rooms: 2  
Beds: 16

### Laboratories: 6

### Transporters Total: 29

1 Person: 0  
2 Person: 1  
6 Person: 7  
12 Person: 0  
22 Person: 7  
Small Cargo: 7  
Medium Cargo: 7  
Large Cargo: 0  
Super Cargo: 0

Brigs: 11  
Replicators: 37  
Tractor Beams:  
Tow Capacity:  $4.41E+06$  mt  
Max Range:  $1.32E+05$  km  
Cargo Specification:  
Standard Cargo Units: 1500  
Cargo Capacity: 75000 mt  
Shuttlecraft Specifications:  
Docking Ports: 3  
Shuttlecraft Bays Total: 1  
Small Bay: 1  
Medium Bay: 0  
Large Bay: 0  
Super Bay: 0  
Shuttlecraft Standard: 11  
Work Bays: 1  
Travel Pods: 1  
Aquatic Shuttle: 1  
Light Shuttle: 0  
Standard Shuttle: 6  
Heavy Shuttle: 1  
Cargo Shuttle: 1  
Assault Shuttle: 0  
Killer Bays: 0  
Light Fighter: 0  
Fighter: 0  
Heavy Fighter: 0  
Lifeboats: 31  
Turbolift (6 person): 23  
Lifeboat (10 person): 6  
Lifeboat (20 person): 2  
Lifeboat (30 person): 0  
Cloaking Devices: 1

### Sensor Index Values:

Planetary Survey: 0.2354  
Stellar Survey: 0.4708  
Short Range: 0.4280  
Long Range: 0.8560  
Navigation: 0.4118  
Special: 0.2951  
Computers: 2  
Type: Daystrom Duotronic II:fx  
Type: Daystrom Duotronic I:cl

### ECM Index: 0.50

### Shield Rating:

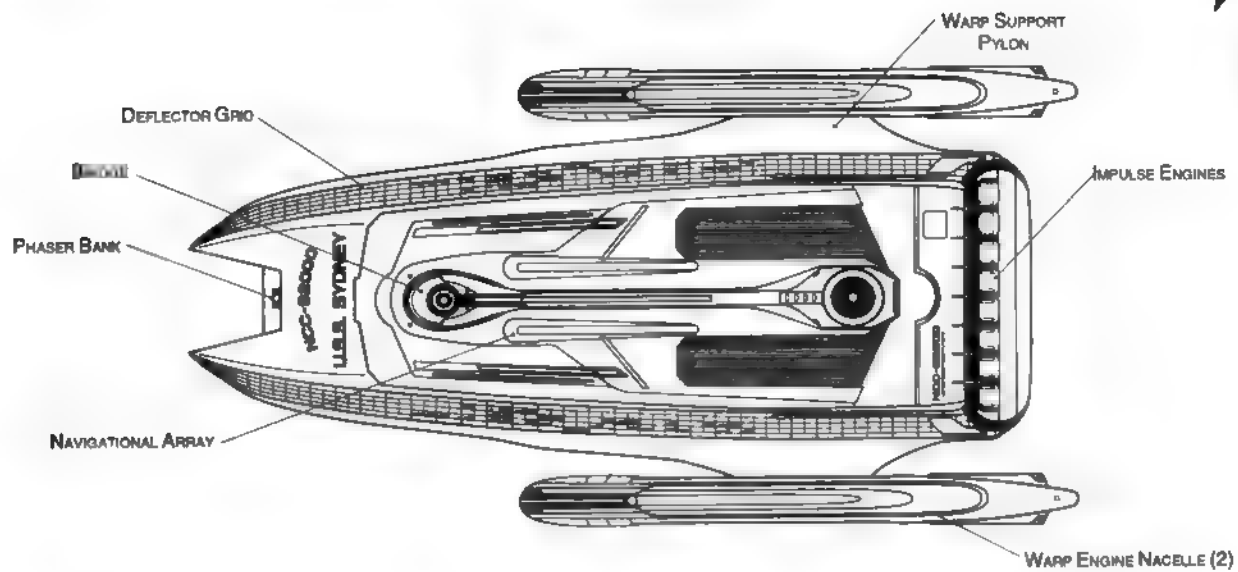
Shield Index: 0.74  
Holdoff Power:  $8.36E+11$  W  
Refresh Rate:  $2.38E+11$  W  
Breakdown Rate:  $2.85E+11$  W  
Shield Dimensions (Meters)  
Length: 352.95 m  
Width: 181.28 m  
Height: 76.64 m

### Power:

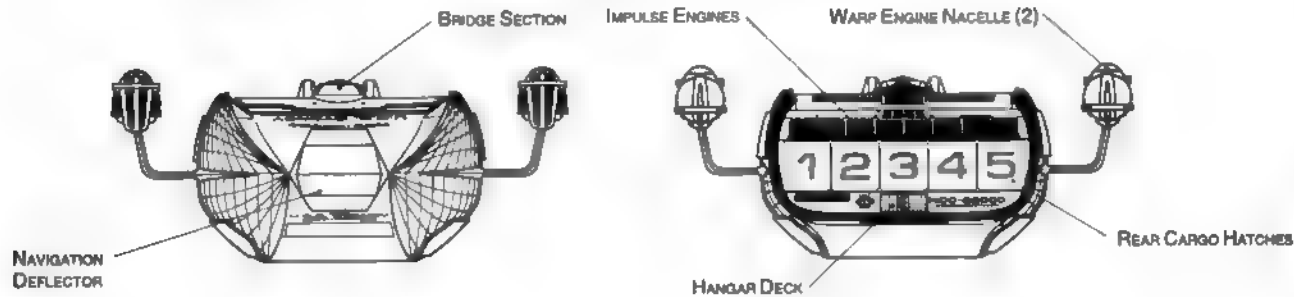
Phaser Power Index: 0.167  
Photon Power Index: 0.000  
Vessel Power Index: 0.083  
Weapon Placement:  
Beam (Phasers) Total: 4 banks 2 each  
Output:  $5.00E+11$  W / 2.5E11 W  
Range:  $2.50E+05$  km  
Rate of Fire: 30 ppm / Cont.  
Forward Banks: 0  
Rear Banks: 0  
Port Banks: 1  
Starboard Banks: 1  
Upper Banks: 1  
Lower Banks: 1  
Beam (MegaPhasers) Total: 0  
Output: N/A  
Range: N/A  
Rate of Fire: N/A  
Forward/Rear Banks: 0  
Port/Starboard Banks: 0  
Upper/Lower Banks: 0  
Torpedoes (Photon) Total: 0 Bays  
Stock: N/A  
Range: N/A  
Output: N/A  
Rate of Fire: N/A  
Forward Bay: 0  
Rear Bay: 0  
Port Bay: 0  
Starboard Bay: 0  
Upper Bay: 0  
Lower Bay: 0

FEDERATION VESSEL

# TRANSPORT SHIP

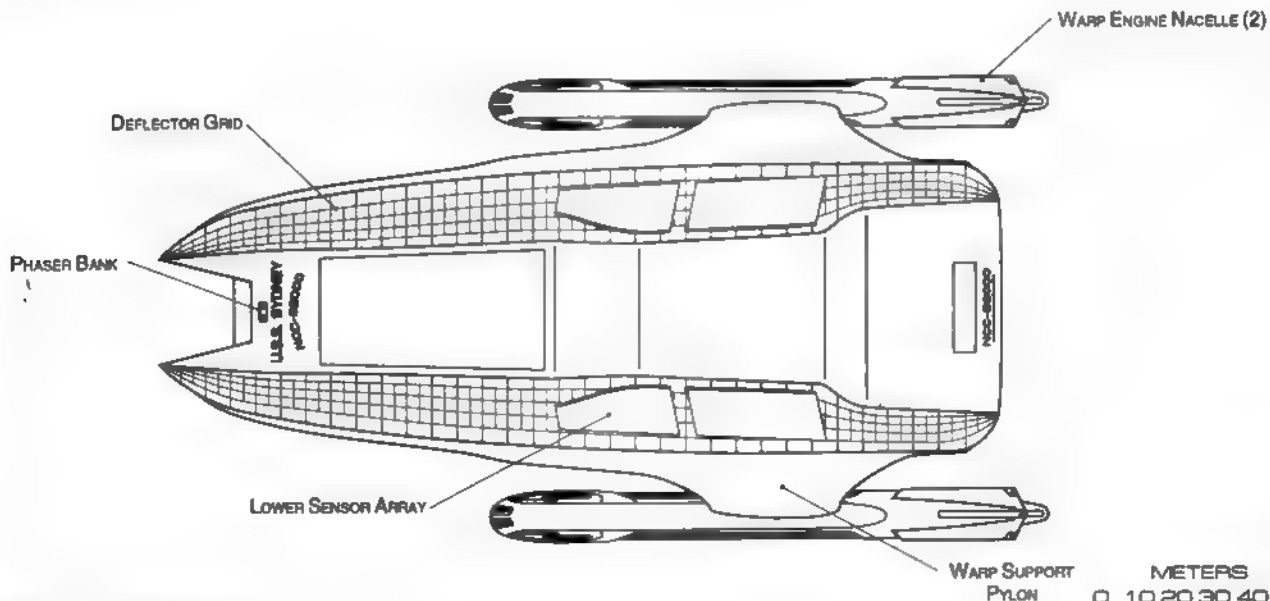


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:2000



# TRANSPORT SHIP

## Ship Names

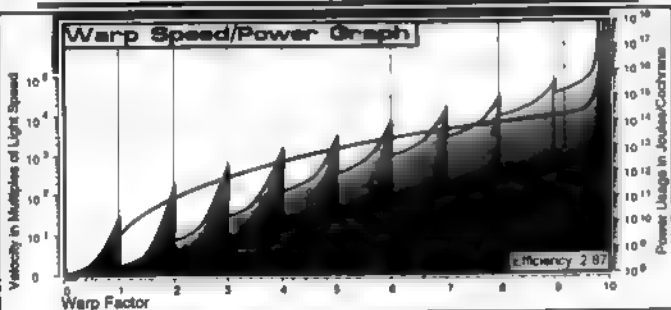
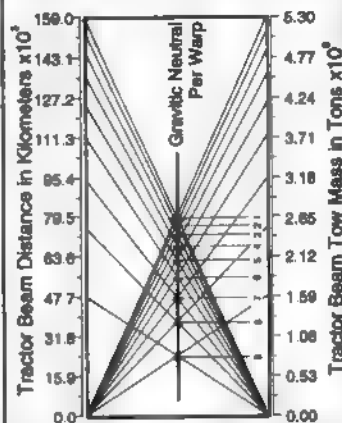
THE FOLLOWING SHIPS OF THE MK2-XX CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2275.2

ANDRAE • NCC-S2072	HARDISON • NCC-S2073	NEGLEY • NCC-S2071	TWERINA • NCC-S2013
BEARE • NCC-S2036	HINJOSA • NCC-S2033	ORINGDERFF • NCC-S2035	WHITTLE • NCC-S2074
BECKETT • NCC-S2020	HIPOLITO • NCC-S2019	OSBEN • NCC-S2017	YOUNY • NCC-S2034
BENGSTON • NCC-S2055**	HOHENBERGER • NCC-S2053	PAIKOWSKI • NCC-S2054	ZARAGOZA • NCC-S2018
BENNEVEDEZ • NCC-S2076	HOLLEY • NCC-S2075**	PALACIOS • NCC-S2078	
BURRESCHIA • NCC-S2032	JENOLEN • NCC-S2010	PARVIS • NCC-S2069	
BYARD • NCC-S2070	KINNEBREW • NCC-S2052	PROVENCE • NCC-S2031	
CHEEK • NCC-S2081	KIRKENDALL • NCC-S2068	REFEGER • NCC-S2095	
CRISP • NCC-S2016	LIMBAUGH • NCC-S2059	RIGGAN • NCC-S2080	
CRUCE • NCC-S2046	MARINLARENA • NCC-S2014	SAMARTINO • NCC-S2015	
CUMMINS • NCC-S2049	MARKUSSEN • NCC-S2048	SATYANARAYANA • NCC-S2047	
CURRIER • NCC-S2038	MARRUFFO • NCC-S2051	SCHAFER • NCC-S2050	
DARRIGAN • NCC-S2043	MARTS • NCC-S2037	SCHIERMEYER • NCC-S2039	
DAUPHINAIS • NCC-S2077	MASSIE • NCC-S2045	SCHWERTNER • NCC-S2044	
DEMPSEY • NCC-S2024	MAXHEIMER • NCC-S2028	SETTLEMIRE • NCC-S2025	
DURANT • NCC-S2003	MCCURDY • NCC-S2002	SIMONS • NCC-S2004	
EDISON • NCC-S2065	MCGECHIE • NCC-S2086	SNEATHEN • NCC-S2087	
ELKINS • NCC-S2040	MCGWIER • NCC-S2042	SODD • NCC-S2041	
EMENHIZER • NCC-S2058	MCKEOWN • NCC-S2057	SPICER • NCC-S2058	
EULAGO • NCC-S2006	MCKNAUGHTON • NCC-S2007	STEPHANOW • NCC-S2005	
FOSTER • NCC-S2028	MESKUNAS • NCC-S2027	SYDNEY • NCC-S2000	
FRALEY • NCC-S2021	MESSICK • NCC-S2022	TEAFF • NCC-S2029	
FRISBIE • NCC-S2009	MIDDLEBROOK • NCC-S2008	TENNANT • NCC-S2023	
FROST • NCC-S2064	MIDKIFF • NCC-S2000	THOMMAN • NCC-S2030	
FYIE • NCC-S2011	MILINOWCZ • NCC-S2012	THOMRAN • NCC-S2082	

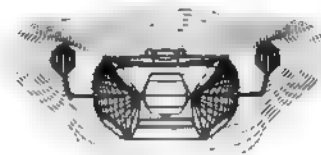
\*CLASS SHIP. \*\*LOST IN THE LINE OF DUTY. \*\*\*PROPOSED. ALL NAMES PRECEDED WITH U.S.S.

## Tractor Beam Specifications

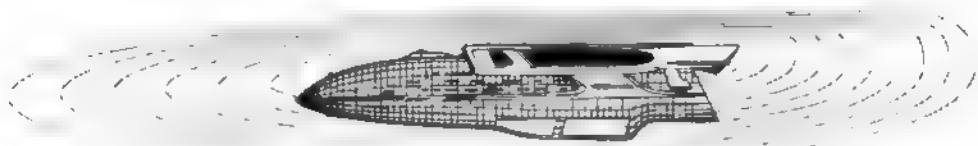
Primary Tractor Beam Load Calculator



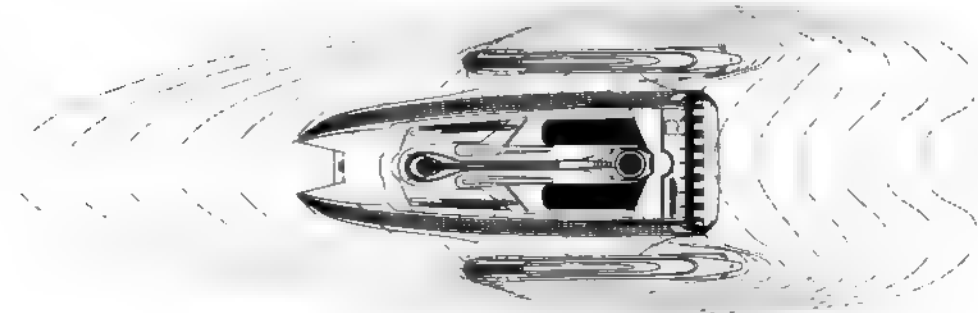
Field Length 512.09m  
Field Width 186.46m  
Field Height 80.85m



Front Warp Field Profile  
Cross Section Area 10288.88 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 34024.80 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 85552.98 m<sup>2</sup>

## WARP FIELDS



# DEUTERIUM TANKER



## General Information

**Specific Role:** Deuterium tankers are essential for the supply and refueling of starships. Tankers rarely travel unescorted in hostile areas since just about any space-faring vessel can use deuterium as a fuel source, including pirate vessels. Usually a few fighters accompany the tanker in the shuttle bay. A special fuel shuttle is standard issue with the tanker.

**Physical Description:** The modular design of the deuterium tanker allows it to be produced relatively inexpensively. The design revolves around a (SH117/C-M2) modified secondary hull with a (BS20/C-U8) standard bridge located over the front. The (DN2/D9) main navigational deflector is mounted in the very front of hull while a medium hangar bay is located in the rear facing aft. Two deuterium pods, with telescoping fueling booms, are mounted above and below the engineering hull on (DT/91-25F) connecting dorsals. Two (BP2/30-2C) phaser banks, one on the peak of each connecting dorsal, provide basic defense. Warp speed propulsion is provided by two (SW45/1-5RT) warp engine nacelles, mounted toward the rear, and are supported on (DU/35-6F) standard pylons. A (IRF35E/4-IR) dual impulse unit is located on the rear of the top tank connecting dorsal. In the event of an emergency the warp nacelles and deuterium pods can be independently jettisoned. The (M35/14-2E) intermix chamber can be ejected through the deflection crystal. The deuterium tanker can cruise on impulse for extended periods of time until help can arrive.

### Class Emblem



### Ship Silhouettes

Total Target Area 20820.88 m<sup>2</sup>



Top Silhouette

Area 18513.91 m<sup>2</sup>



Port Silhouette

Area 9801.78 m<sup>2</sup>



Front Silhouette

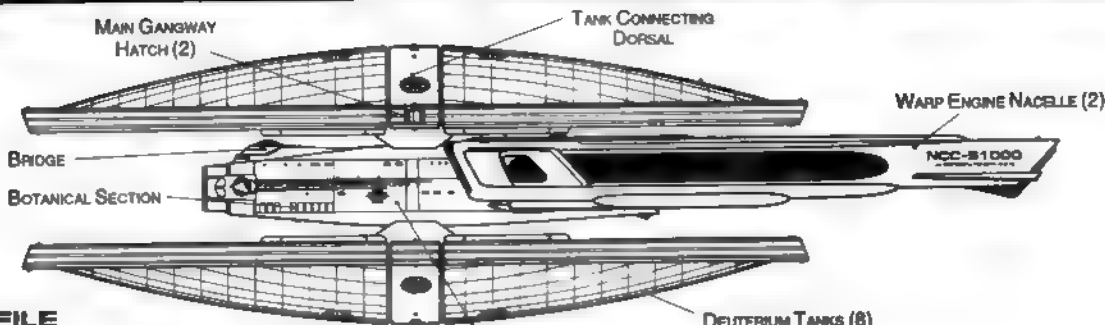
Area 4104.60 m<sup>2</sup>



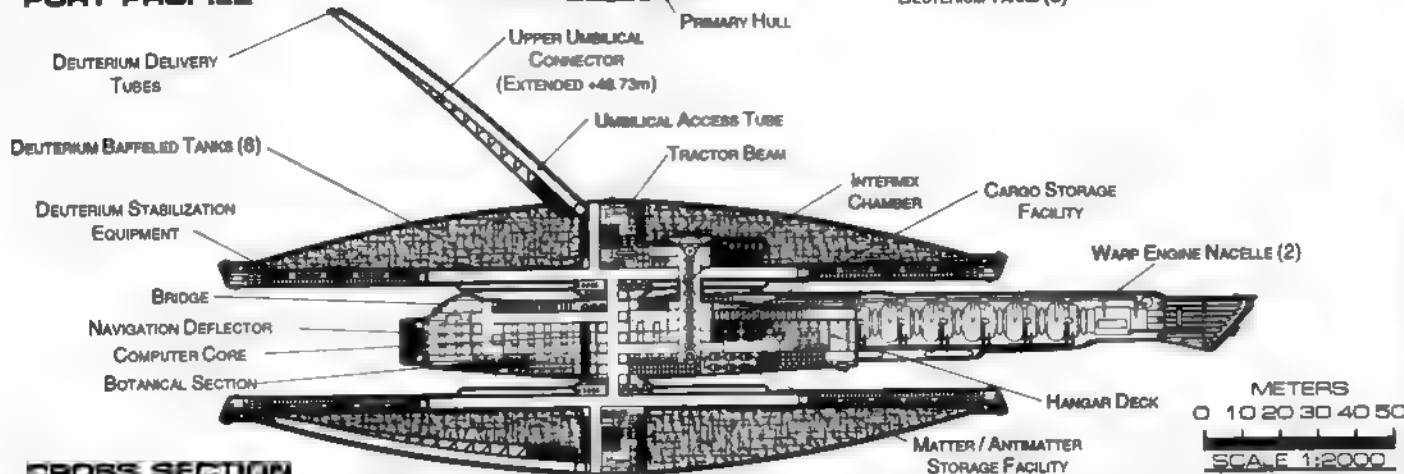
# DEUTERIUM TANKER

HUNTINGTON CLASS

FEDERATION VESSEL



## PORT PROFILE



## CROSS SECTION

## Statistics

**Classification:** Deuterium Tanker

**Category:** Tanker

**Class:** Huntington

**Type:** Class2

**Model:** MK2-VII

**Naval Construction Contract:** S1000

**Number Proposed:** 98

**Number Constructed:** 98

**Number In Service:** 93

**Number Lost:** 5

### Dimensions:

#### Overall Dimensions (Meters)

Length: 261.00 m

Width: 102.48 m

Height: 70.33 m

#### Primary Hull Dimensions (Meters)

Length: 114.48 m

Width: 24.91 m

Height: 21.74 m

#### Secondary Hull Dimensions (Meters)

Length: 197.59 m

Width: 102.48 m

Height: 28.19 m

#### Warp Unit Dimensions (Meters)

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

#### Displacement (Metric Tons)

Light: 176640 mt

Standard: 189249 mt

Full Load: 211263 mt

#### Performance:

Impulse Units: Dual Unit (IRF35E/4-IR)

Impulse Engine Output:  $3.90E+13$  W

Impulse Power Index: 0.61

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.365 sec.

0.25-0.50 Impulse: 0.574 sec.

0.50-0.75 Impulse: 0.767 sec.

0.75-Full Impulse: 0.959 sec.

Warp Units: 2 Nacelle Units (SW45/1-SRT)

Warp Engine Output:  $3.02E+15$  W

Warp Power Index: 0.61

Optimum Speed: 4

Max. Safe Cruising: 6

Emergency Speed: 7

Max. Speed: 7.5

Destructive Speed: 8

Acceleration Power: 3

Acceleration Times:

Warp 1 - Warp 2: 0.330 sec.

Warp 2 - Warp 3: 0.528 sec.

Warp 3 - Warp 4: 1.998 sec.

Warp 4 - Warp 5: 2.873 sec.

Warp 5 - Warp 6: 3.071 sec.

Warp 6 - Warp 7: 3.319 sec.

Warp 7 - Warp 8: 4.260 sec.

Warp 8 - Warp 9: 6.093 sec.

Warp 9 - Warp 9.5: 13.540 sec.

Warp 9.5 - Warp 9.75: 15.687 sec.

Warp 9.75 - Warp 9.9: 32.530

### Duration (Years)

Standard: 7 Years

Maximum: 28 Years

**Mid-Ship Complement:** 52

### Crew:

Crew (Basic Grade): 43

Troops: 0

Passengers: 56

Emergency condition: + 137,268

### Medical Facilities:

Doctors: 1

Nurses: 2

Operating Rooms: 1.0

Beds: 5

Laboratories: 6

Transportation Total: 77

1 Person: 0

2 Person: 0

6 Person: 1

12 Person: 0

22 Person: 1

Small Cargo: 13

Medium Cargo: 12

Large Cargo: 0

Super Cargo: 0

Brigs: 11

Replicators: 14

### Storage:

Tow Capacity:  $3.62E+06$  mt

Max Range:  $1.28E+05$  km

### Cargo Specification:

Standard Cargo Units: 2750

Cargo Capacity: 137500 mt

### Available Transportations:

Docking Ports: 2

Shuttlecraft Bays Total: 1

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 16

Work Bees: 2

Travel Pods: 2

Aquatic Shuttle: 1

Light Shuttle: 1

Standard Shuttle: 3

Heavy Shuttle: 1

Cargo Shuttle: 1

Tanker Shuttle: 5

Killer Bees: 0

Light Fighter: 0

Fighter: 0

Heavy Fighter: 0

Lifeboats: 2

Turbolift (6 person): 2

Lifeboat (10 person): 0

Lifeboat (20 person): 0

Lifeboat (30 person): 0

### Cloaking Devices:

Sensor Index Values:

Planetary Survey: 0.2063

Stellar Survey: 0.4125

Short Range: 0.4125

Long Range: 0.8250

Navigation: 0.4118

Special: 0.1292

### Computers:

Type: Daystrom Duotronic II:b

Type: Daystrom Duotronic I:a

**ECM Index:** 0.50

### Shield Rating:

Shield Index: 0.83

Holdoff Power:  $9.38E+11$  W

Refresh Rate:  $2.87E+11$  W

Breakdown Rate:  $3.20E+11$  W

Shield Dimensions (Meters)

Length: 391.50 m

Width: 153.72 m

Height: 105.50 m

### Weapons:

Phaser Power Index: 0.083

Photon Power Index: 0.000

Vessel Power Index: 0.042

### Weapon Placement:

Beam (Phasers) Total: 2 banks 2 each

Output:  $5.00E+11$  W /  $3.7E+11$  W

Range:  $2.50E+05$  km

Rate of Fire: 30 ppm / Cont.

Forward Banks: 0

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 1

Lower Banks: 1

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

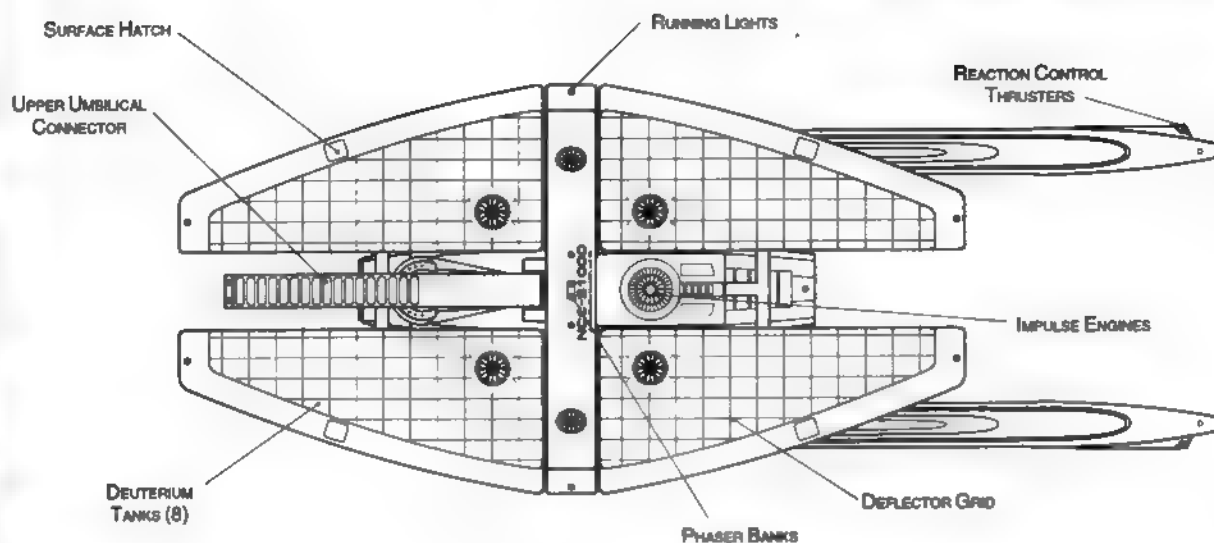
Port Bay: 0

Starboard Bay: 0

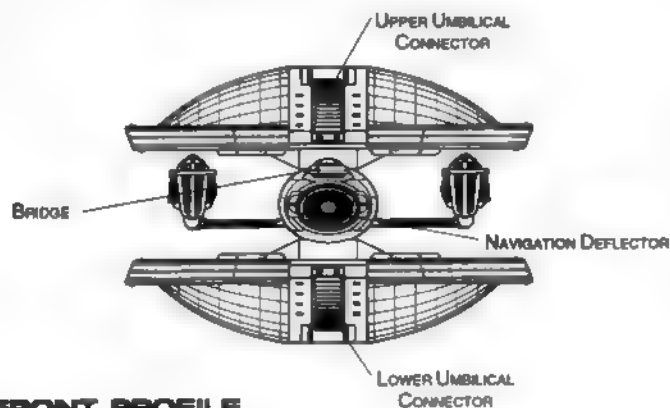
Upper Bay: 0

Lower Bay: 0

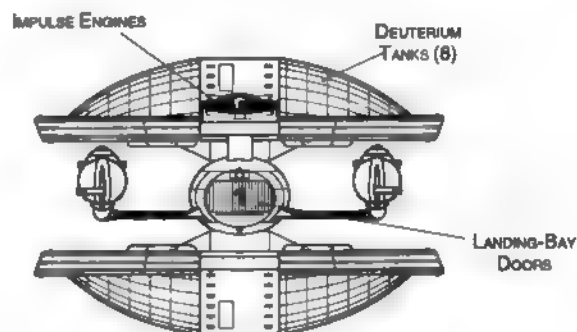
# DEUTERIUM TANKER



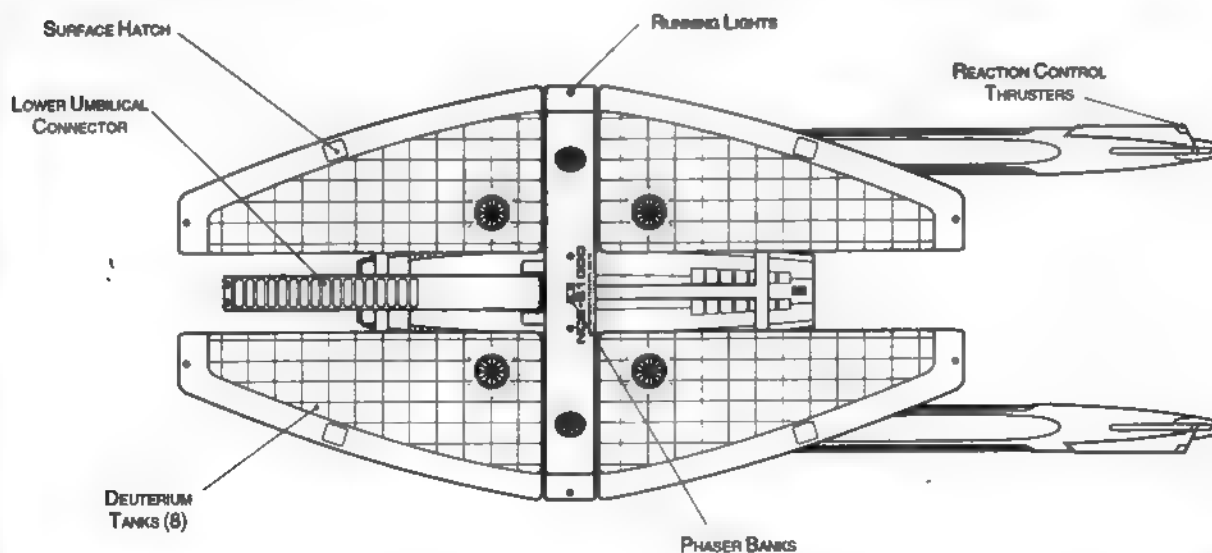
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS  
0 10 20 30 40 50  
SCALE 1:2000



# DEUTERIUM TANKER

## Ship Names

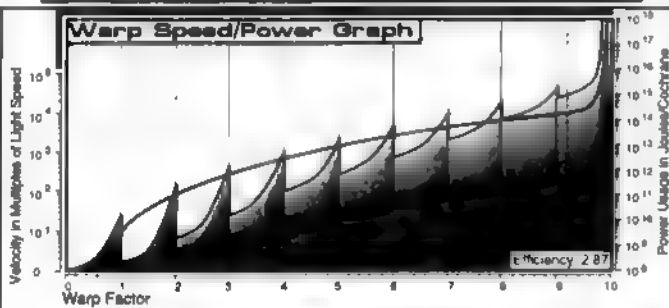
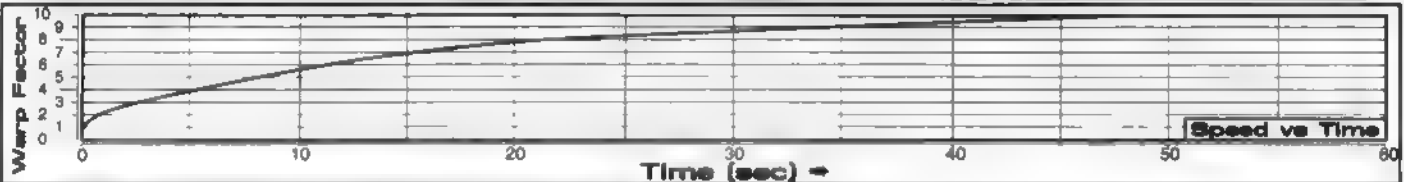
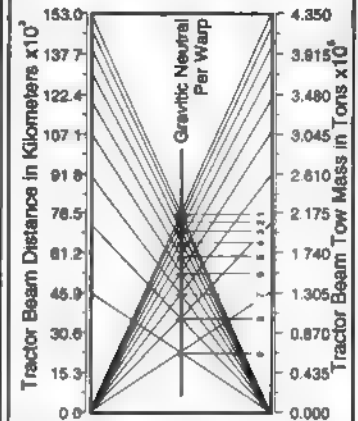
THE FOLLOWING SHIPS OF THE MK2-VII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2266.4

ALLISON • NCC-S1088	GAMBOA • NCC-S1053	MCALLISTER • NCC-S1073	RUSSELL • NCC-S1057
ALLSPAUGH • NCC-S1048	GESTES • NCC-S1044	MCJUNKIN • NCC-S1072	SALBERG • NCC-S1037
AUXER • NCC-S1079***	GIBSON • NCC-S1013	MEEKS • NCC-S1091***	SALIAN • NCC-S1043
AXELROD • NCC-S1058	GOYETTE • NCC-S1087	MELNYK • NCC-S1023	SCHUENEMAN • NCC-S1020
BOWLING • NCC-S1056	HALBROOKS • NCC-S1085	MERCEDARISM • NCC-S1025	SCRUGGS • NCC-S1088
BUCKMACER • NCC-S1036	HALBURTON • NCC-S1049	MIKOVITZ • NCC-S1007	SEIVER • NCC-S1001
BURGESON • NCC-S1018	HAYWARD • NCC-S1078	MILLS • NCC-S1081***	SEXTON • NCC-S1038
CASTILLA • NCC-S1005	HEBERLY • NCC-S1028	MILOSEVICH • NCC-S1051	SHELLENBURG • NCC-S1074
CHARLEBOIS • NCC-S1011	HUNTINGTON • NCC-S1000	MOFFATT • NCC-S1045	SPEARMAN • NCC-S1070
CHYUNG • NCC-S1058	ILAGAN • NCC-S1054	MOLLENKOPF • NCC-S1015	STRASSER • NCC-S1092
CLAYBROOK • NCC-S1066	KELLOGG • NCC-S1034	MORAZAN • NCC-S1069	SUMMERS • NCC-S1024
CONWRIGHT • NCC-S1095	KHAJA • NCC-S1017	MORIBER • NCC-S1081	TAWWATER • NCC-S1027
CRAFTON • NCC-S1033	KOZLOWSKI • NCC-S1096	MUSSULEWHITE • NCC-S1083	THULIN • NCC-S1009
CRANDELL • NCC-S1041	LAYTON • NCC-S1008	NAIDU • NCC-S1047	TILLEY • NCC-S1082
DANE • NCC-S1021	LEVINE • NCC-S1010	NISHIKAWA • NCC-S1077	TINNIN • NCC-S1052
DASGUPTA • NCC-S1089	LISTON • NCC-S1059	NOBEL • NCC-S1030	TYNDELL • NCC-S1046***
DECORDOVA • NCC-S1003	LONGINO • NCC-S1085	PETTIGREW • NCC-S1055	UNFRED • NCC-S1014
DENSFORD • NCC-S1039	MACELIUS • NCC-S1093	POTEET • NCC-S1035	VICKERS • NCC-S1068
DISSMORE • NCC-S1075	MANZANARES • NCC-S1032	PROSSWIMMER • NCC-S1018	VOSS • NCC-S1082
ELMORE • NCC-S1071	MAPULA • NCC-S1042	RAMMAGE • NCC-S1087	WESCOTT • NCC-S1084
FIEL • NCC-S1080	MASILONGAN • NCC-S1019***	RENDON • NCC-S1004	WEY • NCC-S1050
FITZPATRICK • NCC-S1022	MATACIA • NCC-S1087	RIEBEL • NCC-S1012	WINKEL • NCC-S1076
FORSBERG • NCC-S1026	MATSYEK • NCC-S1002	RIX • NCC-S1080	WOLENER • NCC-S1031
FUSTON • NCC-S1008	MAYEKAWA • NCC-S1040	ROCKY • NCC-S1064	
GABLE • NCC-S1063		ROUNTREE • NCC-S1084	

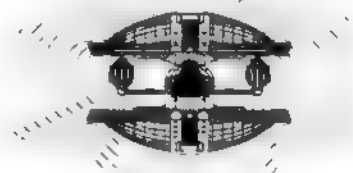
\*CLASS SHIP, \*\*LOST IN THE LINE OF DUTY, \*\*\*PROPOSED. ALL NAMES PRECEDED WITH U.S.S.

## Tractor Beam Specifications

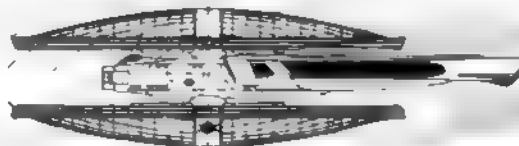
Primary Tractor Beam Load Calculator



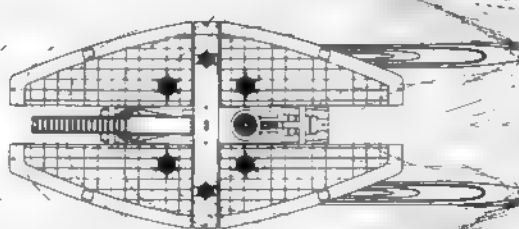
Field Length 534.42m  
Field Width 184.18m  
Field Height 104.97m



Front Warp Field Profile  
Cross Section Area 15020.92 m<sup>2</sup>



Port Warp Field Profile  
Cross Section Area 37348.36 m<sup>2</sup>



Top Warp Field Profile  
Cross Section Area 65816.92 m<sup>2</sup>

## WARP FIELDS

## SHUTUG



## General Information

**Specific Role:** The Shutug is small and powerful tractor beam tow vehicle. It is primarily used around space-docks and planetary facilities. Since this craft was designed strictly for support duty it does not need warp engines. However, two Shutugs have enough impulse power to safely move a Heavy Cruiser.

**Physical Description:** The Shutugs boxy hull is equipped with two doors on either side of the cockpit. The pilot and tractor beam technician sit beneath the large canopy in the nose of the craft. Positioned on the front and on the top of the shuttle are (SNPA12/2-7) navigational sensor arrays. No Phasers are included in the standard configuration. Propulsion is provided by (SIS10-2/100) impulse drive engines slung underneath like little feet. Cowlings have been added to the engines to help cool the plasma coils during atmospheric use.

## Class Silhouettes

Total Target Area 167.30 m<sup>2</sup>



Top Silhouette

Area 89.88 m<sup>2</sup>



Port Silhouette

Area 48.21 m<sup>2</sup>



Front Silhouette

Area 29.41 m<sup>2</sup>

## Statistics

**Classification:** ShuTug (Shuttle Tug)

**Category:** Shuttlecraft

**Class:** Clydesdale

**Type:** Class 5

**Model:** MK-XXIV

**Naval Construction Contract:** CS-104

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 13.97m

Width: 7.05m

Height: 4.84m

**Displacement (Metric Tons)**

Light: 9.20mt

Standard: 10.58mt

Full Load: 12.58mt

**Impulse Units:** (SIS10-2/100)

**Impulse Engine Output:** 6.7x10<sup>8</sup> W

**Max Cruising:** C

**Acceleration:** N/A

0.00-0.25 Impulse: 0.344 sec.

0.25-0.50 Impulse: 0.416 sec.

0.50-0.75 Impulse: 0.588 sec.

0.75-Full Impulse: 0.530 sec.

**Warp Units:** 0

**Warp Engine Output:** N/A

**Optimum Speed:** N/A

**Max. Safe Cruising:** N/A

**Emergency Speed:** N/A

**Max. Speed:** N/A

**Destructive Speed:** N/A

**Acceleration Power:** N/A

**Acceleration Times:**

Warp 1 - Warp 2: N/A

Warp 2 - Warp 3: N/A

Warp 3 - Warp 4: N/A

Warp 4 - Warp 5: N/A

Warp 5 - Warp 6: N/A

Warp 6 - Warp 7: N/A

Warp 7 - Warp 8: N/A

Warp 8 - Warp 9: N/A

Warp 9 - Warp 9.5: N/A

Warp 9.5 - Warp 9.75: N/A

Warp 9.75 - Warp 9.9: N/A

**Function (Years)**

Standard: 5 Years

Minimum: 20 Years

**Std. Ship Complement:** 1

**Crew:** 1

**Passengers:** 3

**Emergency condition:** +4

**Transports Total:** 0

1 Person: 0

2 Person: 0

3 Person: 0

Small Cargo: 0

Medium Cargo: 0

**Tractor Beams:** 2

**Tow Capacity:** 7.82x10<sup>5</sup>mt

**Max Range:** 9.35x10<sup>1</sup>km

**Cargo Specification:**

**Standard Cargo Units:** 4

**Cargo Capacity:** 10.58

**Shuttlecraft Specifications:**

**Docking Ports:** 0

**Tracking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 1.002

**Stellar Survey:** 0.988

**Short Range:** 1.103

**Long Range:** 0.958

**Navigation:** 0.997

**Special:** 0.896

**Computers:** 2

**Type:** Norray-Magne 20:d

**Type:** Norray-Magne 12:k

**Shield Rating:**

**Holdoff Power:** 4.22x10<sup>8</sup> W

**Refresh Rate:** 1.62x10<sup>8</sup> W

**Breakdown Rate:** 1.72x10<sup>8</sup> W

**Shield Dimensions (Meters)**

Length: 15.42m

Width: 12.45m

Height: 5.85m

**Weapons:**

**Weapon Placement:**

**Beam (Phasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward Banks:** 0

**Rear Banks:** 0

**Port Banks:** 0

**Starboard Banks:** 0

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (HeavyPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Missiles (Photon) Total:** N/A

**Stock:** N/A

**Range:** N/A

**Output:** N/A

**Rate of Fire:** N/A

**Forward Bay:** 0

**Rear Bay:** 0

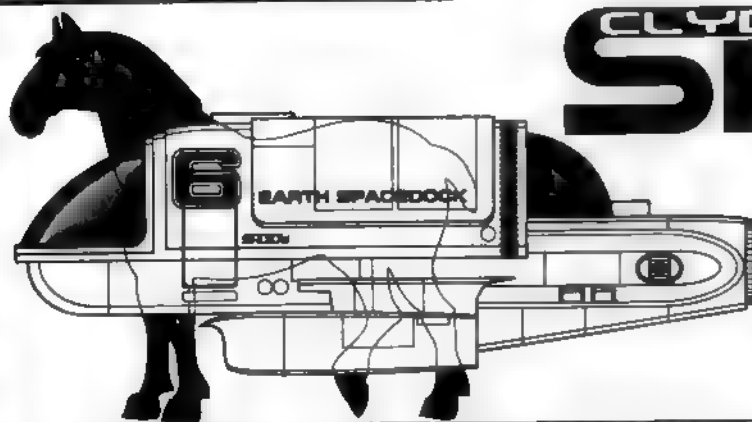
**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

**Lower Bay:** 0

## Craft Emblem



CLYDESDALE CLASS  
SHUTUG



# SHUTUG

CLYDESDALE CLASS

FEDERATION CRAFT

MAIN GANGWAY  
HATCH

TRACTOR BEAM  
POWER SUPPLY

TRACTOR BEAM  
EMITTER



PORT PROFILE

IMPULSE ENGINES (2)

TRACTOR BEAM HOUSING

VIEWPORT

SENSOR ARRAY

TRACTOR BEAM  
POWER SUPPLY

TOP PROFILE

METERS  
0 0.5 1 1.5 2  
SCALE 1:95

IMPULSE ENGINES (2)

TRACTOR BEAM  
EMITTER

FORWARD SENSOR ARRAY

BOTTOM PROFILE

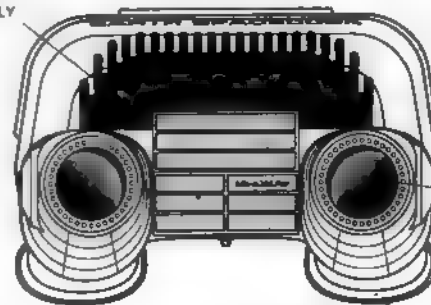
VIEWPORT

TRACTOR BEAM  
POWER SUPPLY

FORWARD  
SENSOR  
ARRAY



FRONT PROFILE



TRACTOR BEAM  
EMITTER

REAR PROFILE

# DOCKPORT CRAFT



## General Information

**General Description:** The Dockport Craft, originally designed by the Talya Design Institute of Vulcan, was adopted for use throughout the Federation. These craft are used by Federation officials, ambassadors and starfleet personnel for transportation within the Federation's borders. They are designed and built around the accepted federation standard docking ring. These vehicles can travel for several standard months with only moderate resupply during rendezvous. All Talya Dockport craft are designed to use the same warp-sled and most auxiliary attachment systems.

**Light Shuttle:** The Chisu Class Light Shuttle is generally used for transporting no more than six passengers at a time. Forward is the wedge-shaped atmospheric shield protecting the nose of the craft. Access is through the port side access hatch, rear docking tube and lower iris hatch. The shuttles (SME22/2BC) sensor array is located on the underside. Protection is provided by three (BP1/6-1D) phasers, one just forward of the sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3/5-Q) impulse unit. (Chisu: *Vulcan for short*)

**Cargo:** The Fikaru Class Cargo Shuttle is used for transporting cargo, crewed by a pilot and can carry optional passengers. Forward is the wedge-shaped atmospheric shield protecting the nose of the craft. Access is through the port side access hatch, rear docking tube, port/starboard cargo hatches and upper/lower iris hatches. The shuttles (SME22/2GH) sensor array is located on the underside. Protection is provided by four (BP1/6-1D) phasers, two just forward of the sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3/5-Q) impulse unit. (Fikaru: *Vulcan for strong*)

**Standard:** The Manasu Class Standard Shuttle is the original Vulcan shuttle design. Two crew and eight passengers are standard complement. Forward is the wedge-shaped atmospheric shield protecting the nose of the craft. Access is through the port side access hatch, rear docking tube/upper and lower iris hatches. The shuttles (SME22/2YT) sensor array is located on the underside. Protection is provided by four (BP1/6-1D) phasers, two just forward of the sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3/5-Q) impulse unit. (Manasu: *Vulcan for leg*)

**Heavy Shuttle:** The Atai Class Heavy Shuttle has a standard crew of four and up to fourteen passengers. Forward is the wedge-shaped atmospheric shield protecting the nose of the craft. Access is through the port side access hatch, rear docking tube and upper/lower iris hatches. The shuttles (SME22/2EK) sensor array is located on the underside. Protection is provided by four (BP1/6-1D) phasers, two just forward of the sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3/5-Q) impulse unit. (Atai: *Vulcan for far*)

**Warp Sled:** The Tai Class Warp Sled adds extended warp capability to the Talya Dockport craft. The sled can cruise at warp 4 with a max. speed of warp 4.78. The sled is designed around a shuttle attachment platform with two (IP25E/4-IU)/(SW25/2-10S) impulse/micro-warp nacelles slung to each side. The sled is equipped with a (SME22/2ED) sensor array. (Tai: *Vulcan for long*)

### Modules

**Aquatic Encasement:** This device seals the sensitive components underneath the Talya Dockport craft and provides buoyancy and propulsion at depths of 100 meters or less.

**Communication Module:** Provides high gain reception and high power transmission for deep space communications

**Fuel Module:** Adds fuel storage to extend power reserves and range of Dockport craft.

**Impulse Module:** Provides additional impulse power to Dockport craft.

**Manipulation Module:** Adds manipulator arms to the front of Dockport craft.

**Micro Warp Nacelles:** Adds light warp capabilities to the Talya Dockport craft.

**Phaser Module:** Adds medium phaser capability for basic defense and cutting.

**Photon Torpedo Module:** Adds photon missile capability to the shuttle

**Research Module:** Adds research gathering and wide-band diagnostic tools.

**Sensor Array Module:** Adds focused specific band probing capability.

**Survey Module:** Used by small science teams for stellar body surveys

**Tractor Beam Module:** Adds tractor beam towing and manipulation capability to the shuttle.

**Tow Hitch Module:** Adds physical towing connections to unusual objects.

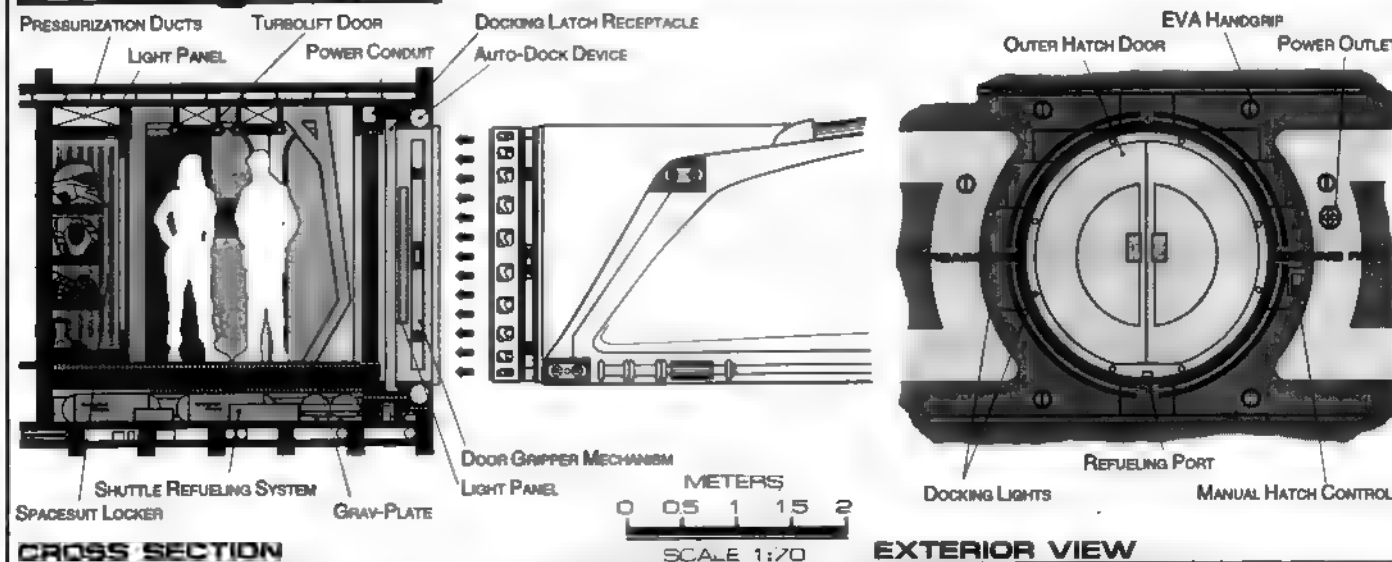
**Medical Pod:** Provides medical facilities for Dockport craft comprised of 2 doctors, 14 emergency bunks and light surgical facilities.

**Passenger Pod:** Adds independently powered accommodations for 20 passengers.

**Cargo Pod:** Doubles the volume of cargo space to any Dockport craft.

**Light Cargo Pod:** Adds a little extra cargo space to any Dockport craft

## Docking Port

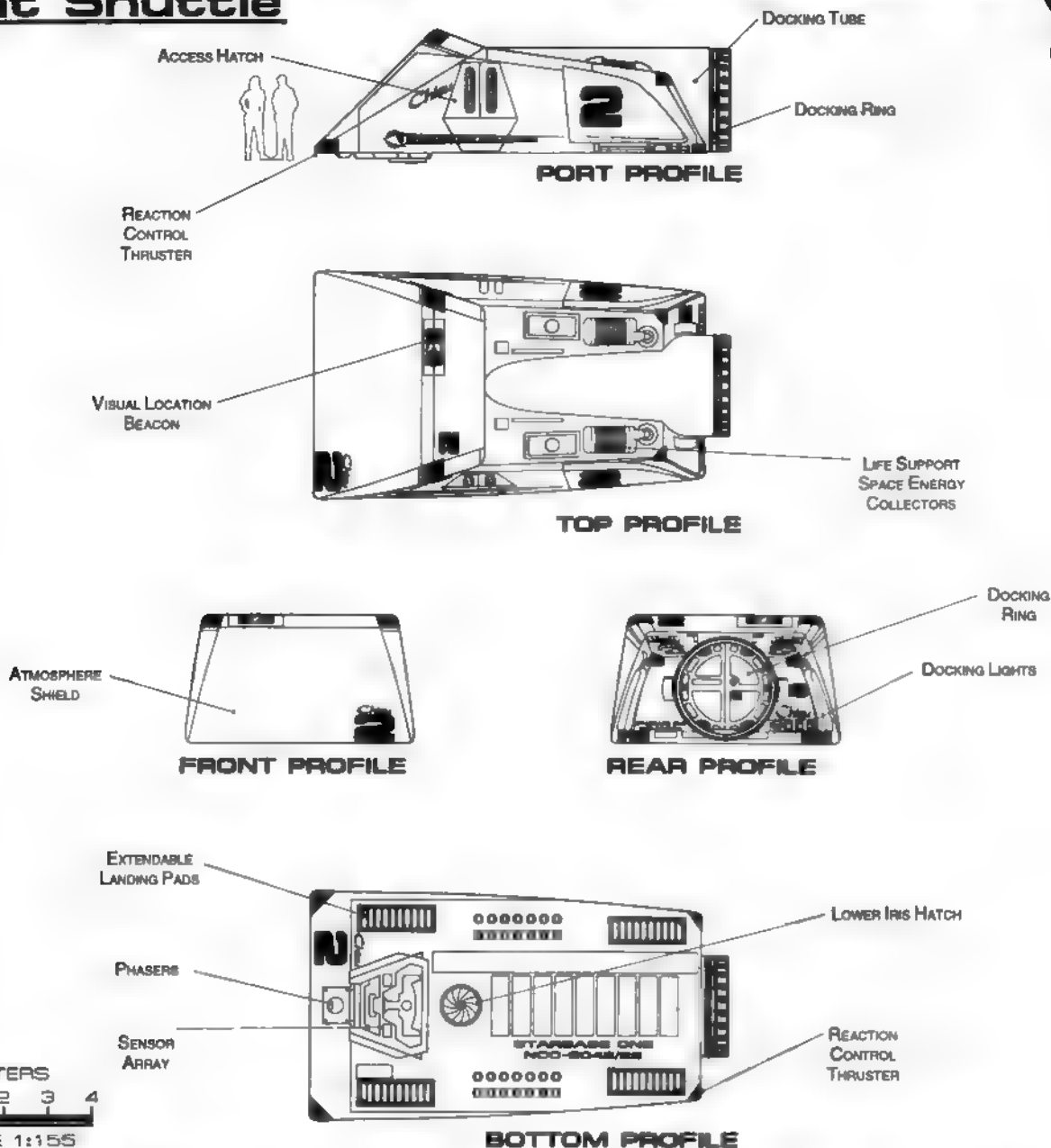






## DOCKPORT CRAFT

## Light Shuttle



## Class Emblem



## Craft Silhouettes

Total Target Area 80.78 m<sup>2</sup>

Front Silhouette  
Area 14.78 m<sup>2</sup>

Top Silhouette  
Area 45.08 m<sup>2</sup>

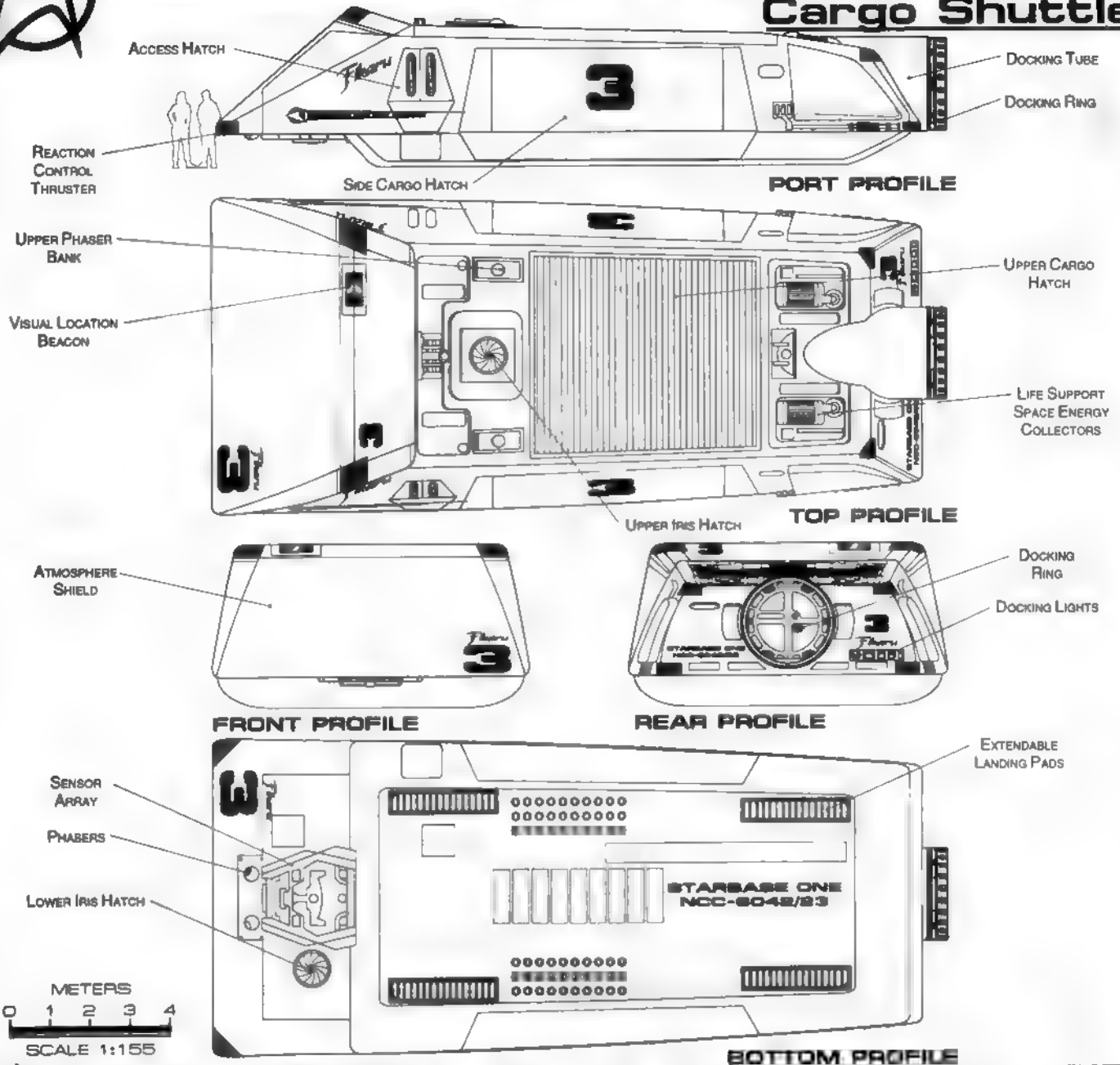
Port Silhouette  
Area 20.98 m<sup>2</sup>



# DOCKPORT CRAFT

## Cargo Shuttle

FIKARU CLASS

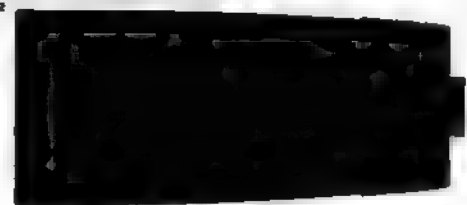


### Class Emblem



### Craft Silhouettes

Total Target Area 224.24 m<sup>2</sup>



**Top Silhouette**  
Area 135.16 m<sup>2</sup>



**Front Silhouette**  
Area 30.98 m<sup>2</sup>

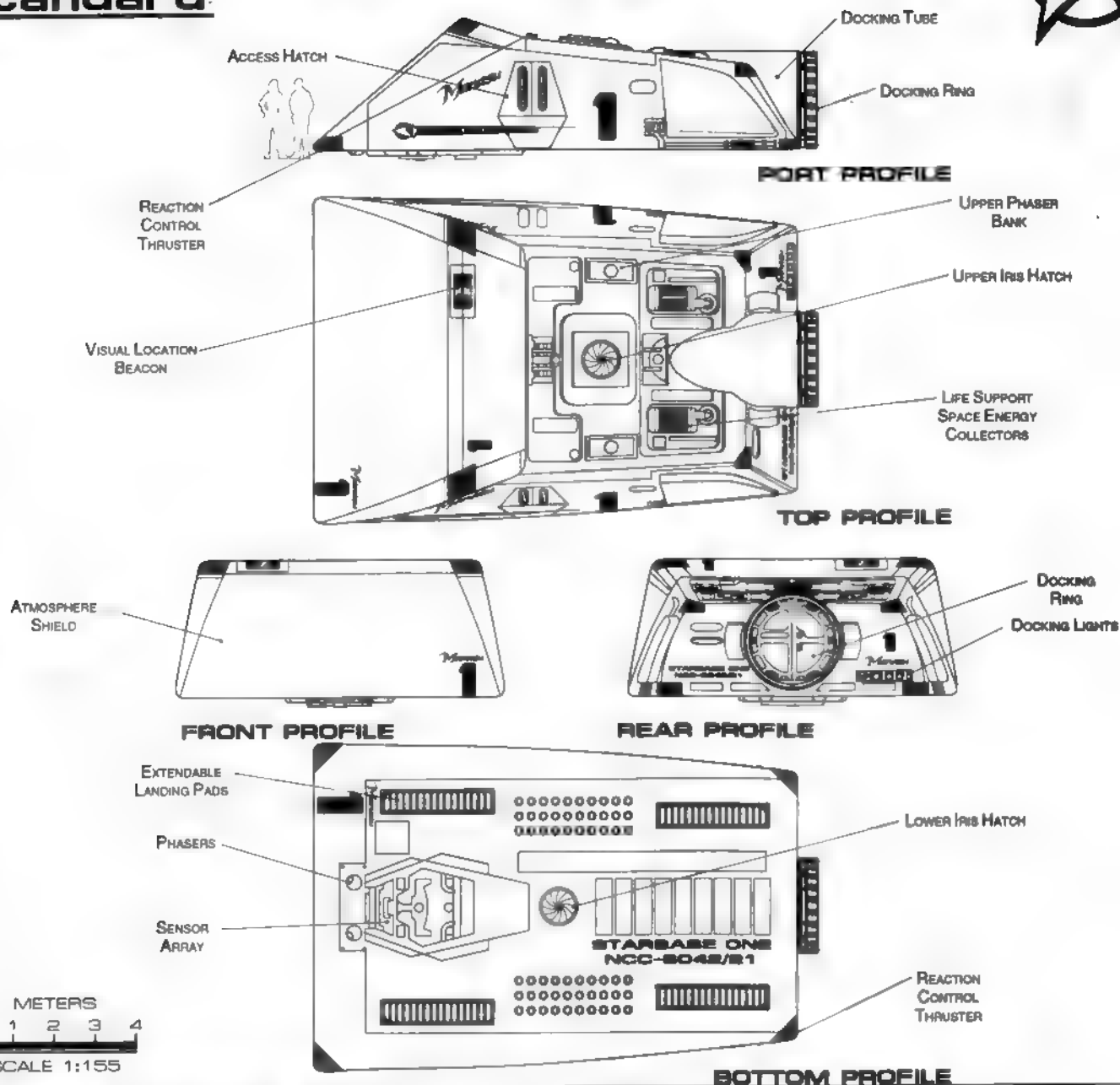


**Port Silhouette**  
Area 58.08 m<sup>2</sup>

FEDERATION CRAFT

## DOCKPORT CRAFT

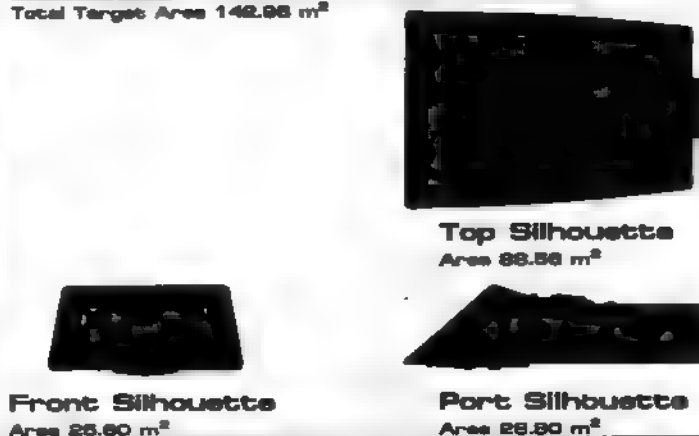
Standard



## Class Emblem

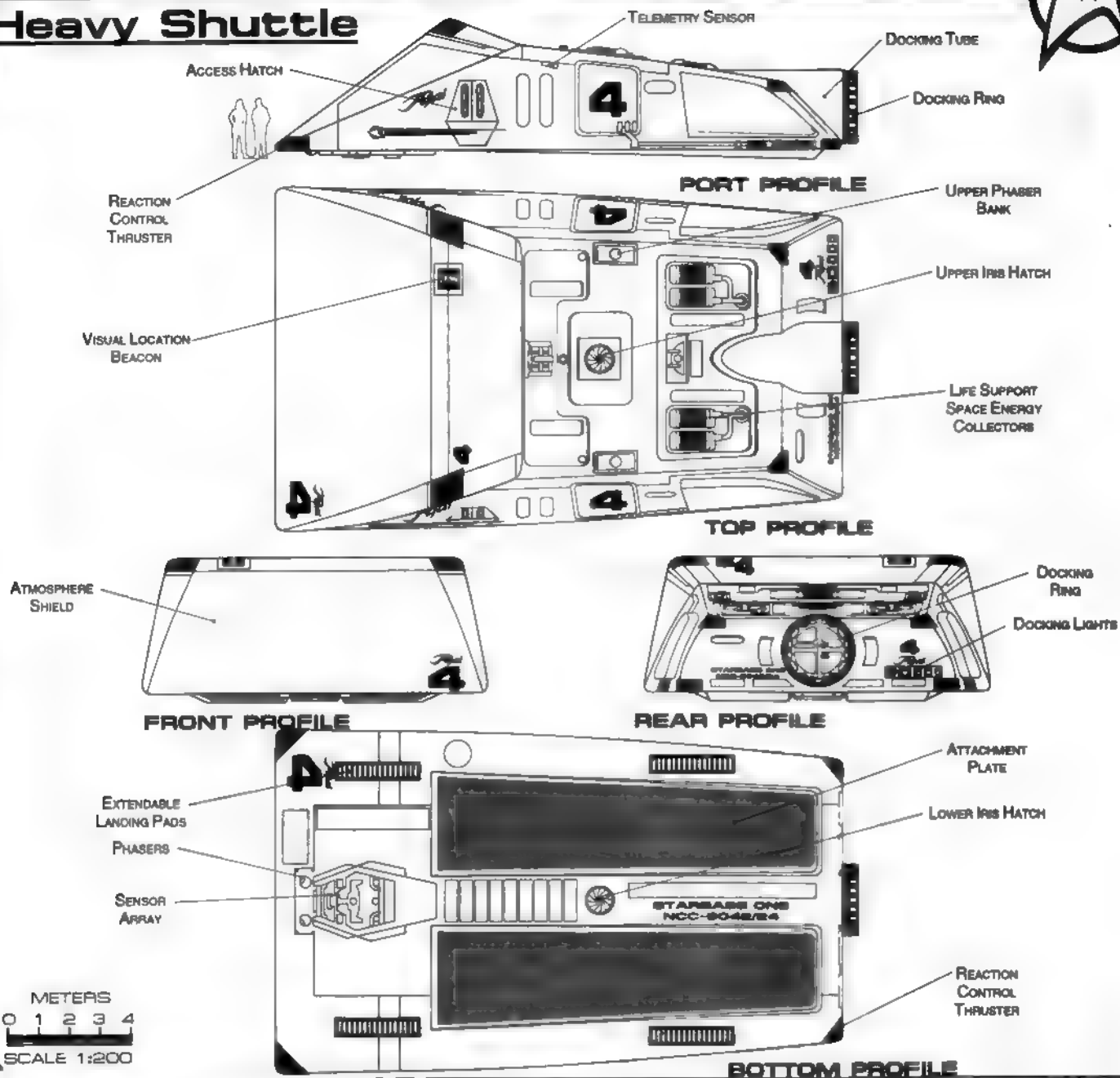


## Craft Silhouettes

Total Target Area 142.98 m<sup>2</sup>

## DOCKPORT CRAFT

## Heavy Shuttle



## Class Emblem



## Craft Silhouettes

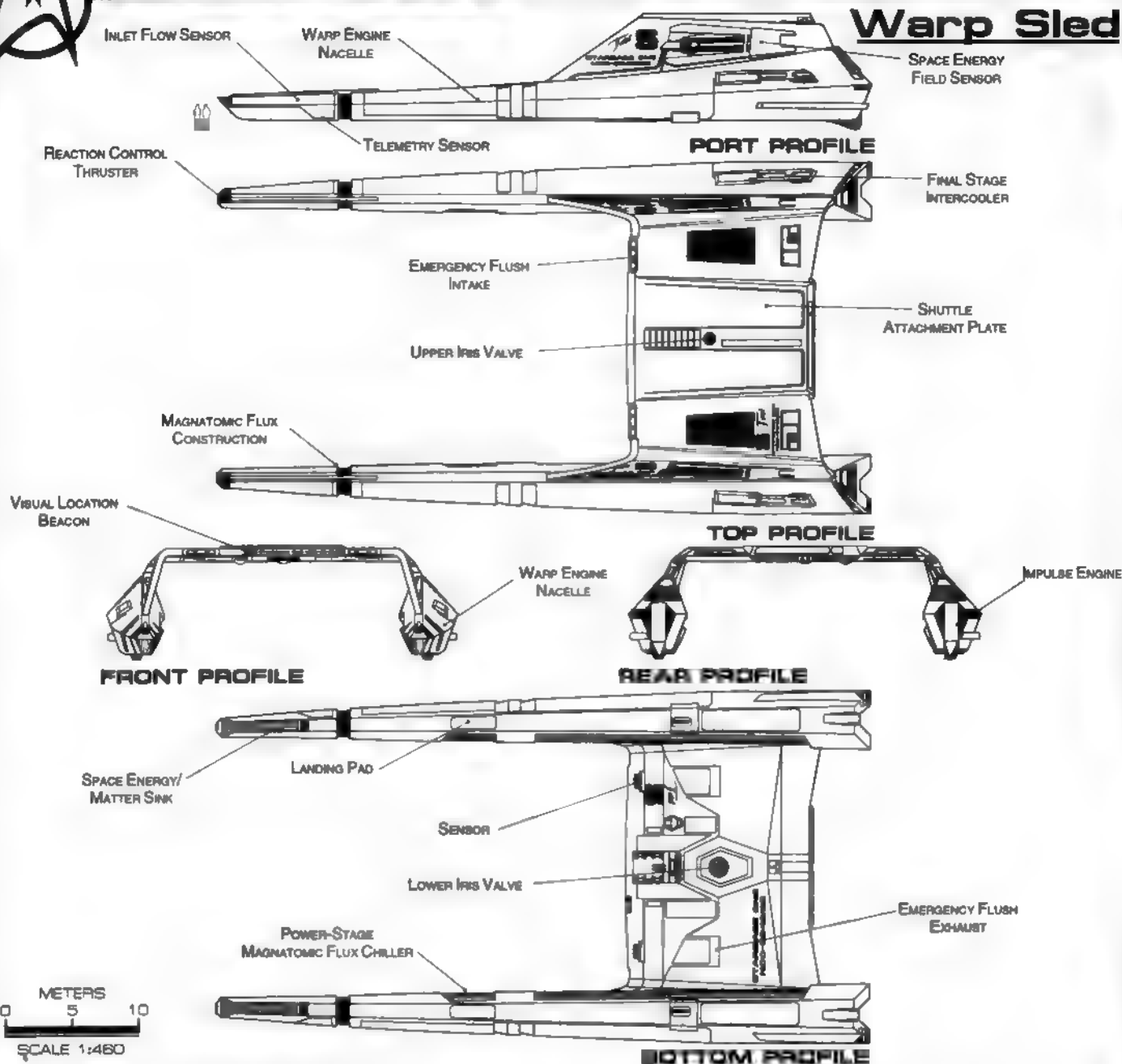
Total Target Area 290.12 m<sup>2</sup>Top Silhouette  
Area 186.44 m<sup>2</sup>Front Silhouette  
Area 47.64 m<sup>2</sup>Port Silhouette  
Area 53.64 m<sup>2</sup>



# DOCKPORT CRAFT

## Warp Sled

TAI CLASS



### Class Emblem



### Craft Silhouettes

Total Target Area 878.94 m<sup>2</sup>



Top Silhouette  
Area 571.84 m<sup>2</sup>



Front Silhouette  
Area 53.32 m<sup>2</sup>



Port Silhouette  
Area 221.95 m<sup>2</sup>

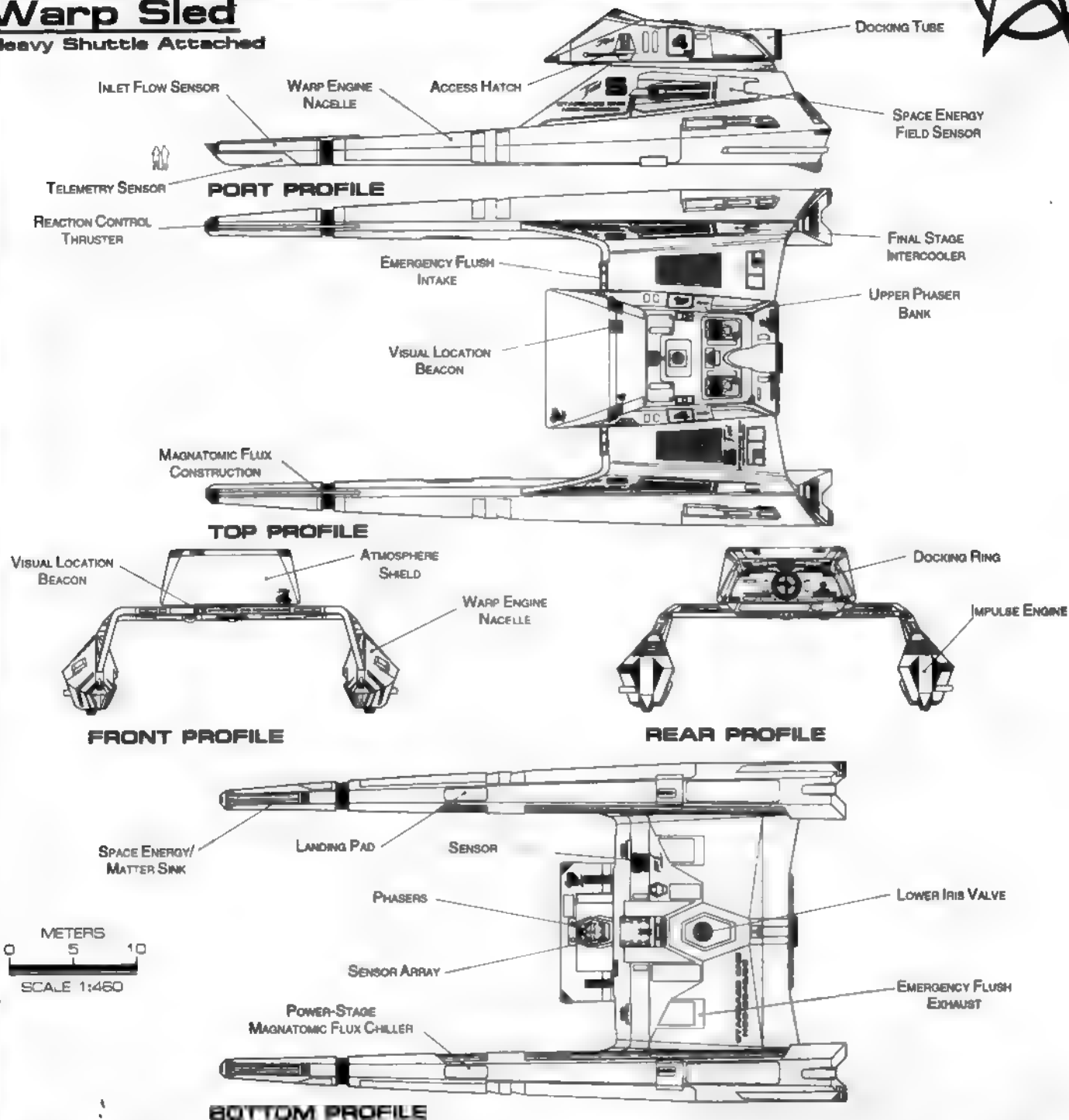
FEDERATION CRAFT

# DOCKPORT CRAFT



## Warp Sled

Heavy Shuttle Attached



## Craft Silhouettes

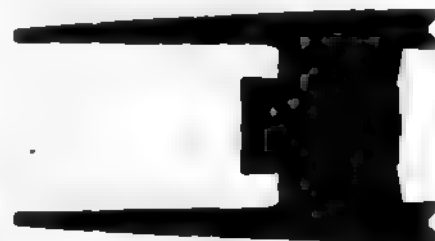
Total Target Area 1022.87 m<sup>2</sup>



**Front Silhouette**  
Area 111.19 m<sup>2</sup>



**Port Silhouette**  
Area 279.72 m<sup>2</sup>



**Top Silhouette**  
Area 631.96 m<sup>2</sup>



# TRAVEL POD



## General Information

**Specific Role:** The main purpose of the Travel Pod is for short range observation missions, and is generally used around construction sites for observation and transportation of work crews to their assignments. The Travel Pod is strictly a zero-g operational vehicle.

**Physical Description:** Located along the front of the pod is a large viewing canopy. Mounted on the front of the pod are 32 raised (SMDN4/2-1) sensor panels. A (DRM1-2A) docking ring provides egress through the rear when attached to an air-lock. Fine maneuvering, for the pod, is provided by reaction control thrusters on either side of the rear. The Travel Pod is equipped with a (IM4/5-2DA) reactionless gravitic drive system for primary propulsion.

For additional detail refer to Datasheet MVD-1

## Class Emblem



## Statistics

**Classification:** Travel Pod

**Category:** Shuttlecraft

**Class:** Viewer

**Type:** Class 5

**Model:** TP-15

**Naval Construction Contract:** TP-15

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 4.34m

Width: 3.20m

Height: 2.76m

**Displacement (Metric Tons)**

Light: 1.89mt

Standard: 1.95mt

Full Load: 2.50mt

**Performance:**

**Impulse Units:** Thrusters

**Impulse Engine Output:**  $7.6 \times 10^5$  W

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse:  $4 \times 10^5$  sec

0.25-0.50 Impulse: N/A

0.50-0.75 Impulse: N/A

0.75-Full Impulse: N/A

**Warp Units:** N/A

**Warp Engine Output:** N/A

**Optimum Speed:** N/A

**Max. Safe Cruising:** N/A

**Emergency Speed:** N/A

**Max. Speed:** N/A

**Destructive Speed:** N/A

**Acceleration Power:** 0

**Acceleration Times:**

Warp 1 - Warp 2: N/A

Warp 2 - Warp 3: N/A

Warp 3 - Warp 4: N/A

Warp 4 - Warp 5: N/A

Warp 5 - Warp 6: N/A

Warp 6 - Warp 7: N/A

Warp 7 - Warp 8: N/A

Warp 8 - Warp 9: N/A

Warp 9 - Warp 9.5: N/A

Warp 9.5 - Warp 9.75: N/A

Warp 9.75 - Warp 9.9: N/A

**Duration (Years)**

Standard: 3 Years

Maximum: 8 Years

**Std Ship's Complement:** 1

Crew: 1

Passengers: 7

**Emergency condition:** +4

**Transporters Total:** 0

1 Person: 0

2 Person: 0

6 Person: 0

Small Cargo: 0

Medium Cargo: 0

**Tractor Beams:** N/A

**Tow Capacity:** N/A

**Max Range:** N/A

**Cargo Specification:**

**Standard Cargo Units:** N/A

**Cargo Capacity:** N/A

**Shuttlecraft Specifications:**

**Docking Ports:** 1

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 0.451

**Stellar Survey:** 0.215

**Short Range:** 0.987

**Long Range:** 0.115

**Navigation:** 0.012

**Special:** 1.021

**Computers:** 1

**Type:** Norray-Magne 15.c

**Type:** N/A

**Shield Rating:**

**Holdoff Power:**  $4.72 \times 10^4$  W

**Refresh Rate:**  $1.34 \times 10^4$  W

**Breakdown Rate:**  $1.81 \times 10^{14}$  W

**Shield Dimensions (Meters)**

Length: 5.21m

Width: 3.84m

Height: 3.31m

**Weapons:**

**Weapon Placement:**

**Beam (Phasers) Total:** N/A

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward Banks:** 0

**Rear Banks:** 0

**Port Banks:** 0

**Starboard Banks:** 0

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (HeavyPhasers) Total:** N/A

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Missiles (Photon) Total:** N/A

**Stock:** N/A

**Range:** N/A

**Output:** N/A

**Rate of Fire:** 0

**Forward Bay:** 0

**Rear Bay:** 0

**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

**Lower Bay:** 0

## Craft Silhouettes

Total Target Area  $30.74 \text{ m}^2$

Average Target Area  $10.25 \text{ m}^2$



Top Silhouette

Area  $12.40 \text{ m}^2$

Port Silhouette

Area  $11.00 \text{ m}^2$



Front Silhouette

Area  $7.34 \text{ m}^2$

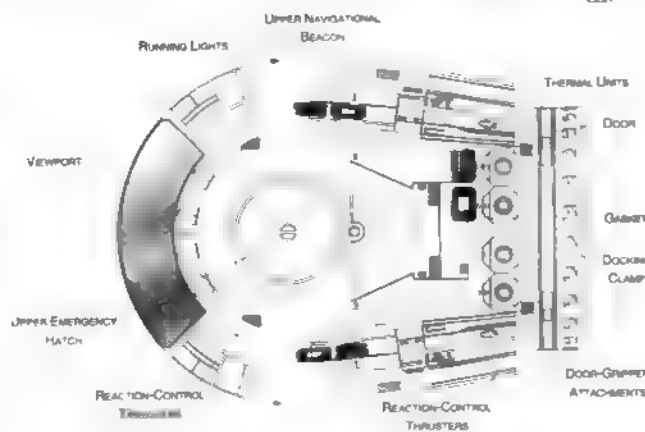




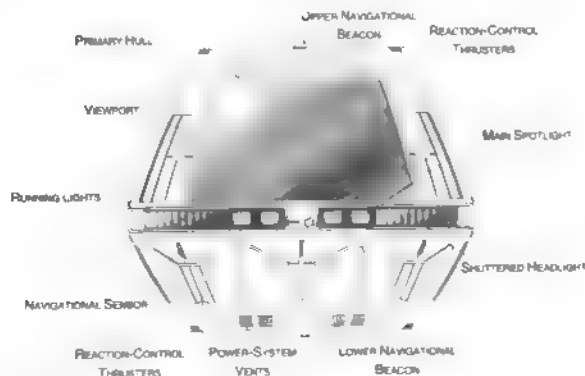
# TRAVEL POD

VIEWER CLASS

PORT PROFILE

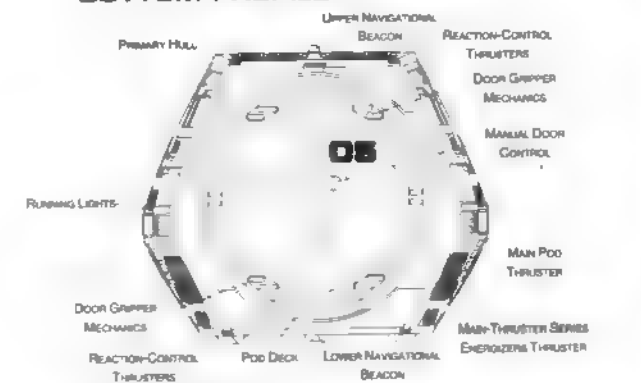


TOP PROFILE



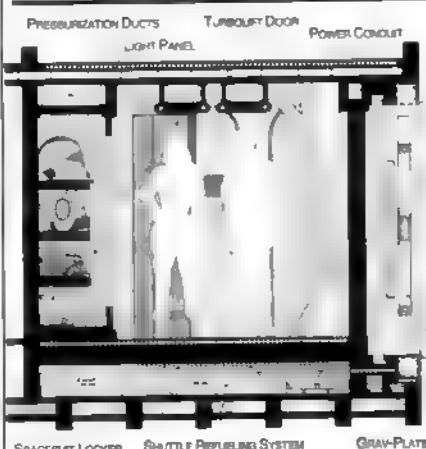
FRONT PROFILE

BOTTOM PROFILE

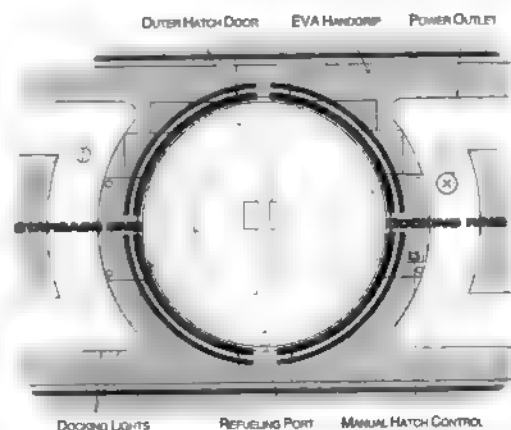
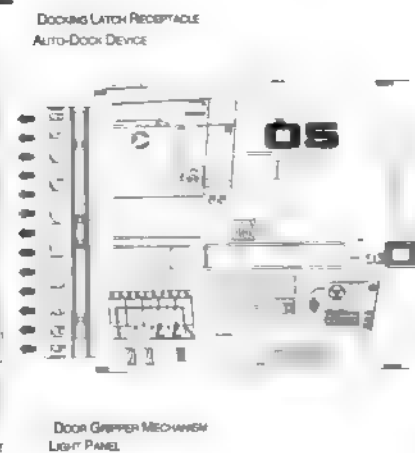


REAR PROFILE

## Docking Port



CROSS SECTION



EXTERIOR VIEW

FEDERATION CRAFT

# GENERAL UTILITY CRAFT



WORKBEE CLASS

## General Information

**Specific Role:** The WorkBee family of general utility vehicles are designed to fulfill almost all utility craft roles. This family of craft is based on a modular system built around the basic WorkBee vehicle.

**WorkBee:** The WorkBee is basically a single operator, general purpose cockpit with a rudimentary drive system. It has been designed to accommodate a whole range of modular components. The cockpit control system is automatically reconfigured with each new modular attachment. The WorkBee by itself is no more than a viewing cockpit, but with its modules attached it is able to perform various specific missions.

**DualBee:** The DualBee is a WorkBee with a two person cockpit. The DualBee is compatible with most WorkBee modules (Refer to WorkBee Attachment Compatibility Chart for exact compatibility with various attachments).

**AssaultBee:** The AssaultBee is a light weapons module that gives the Bee both weapons and warp capability.

**SuperBee:** The SuperBee module gives the Bee tractor beams, warp capability, and additional sensors and towing capacity. The SuperBee can still utilize most of the other modules (Refer to WorkBee Attachment Compatibility Chart for exact compatibility with various attachments).

**KillerBee:** The KillerBee module turns the Bee into a light fighter with phaser, photons, warp capability and additional sensors.

**Cargo Train:** The Cargo Train module allows multiple cargo pods to be chained together for transportation.

**Passenger Train:** The Passenger Train module allows multiple passenger and medical pods to be chained together for transportation.

**Tanker Train:** The Tanker Train module can be used for liquid or bulk transport.

**Booster Pack:** The Booster Pack gives the Bee additional towing capacity and minor warp capability.

**Clamper Pack:** The Clamper Pack allows the Bee to grasp and clamp objects.

**Cutter Pack:** The Cutter Pack gives the Bee an external fusion cutting torch.

**Drone Pack:** The Drone Pack contains an independent computer to perform operations that do not require an operator.

**Floodlight Pack:** The Floodlight Pack is used for large scale illumination.

**Grabber Pack:** The Grabber Pack allows the Bee to grasp and manipulate objects.

**Heavy Booster Pack:** The Heavy Booster Pack gives the Bee additional towing capacity and medium warp capability.

**Sensor Pack:** The Sensor Pack increases the Bees standard sensor range.

**Spinner Pack:** The Spinner Pack allows the Bee to spot weld and spool out cable.

**Survey Pack:** The Survey Pack allows the Bee to perform simple survey tasks.

**Tow Hitch Pack:** The Tow Hitch Pack allows the Bee to physically tow objects.

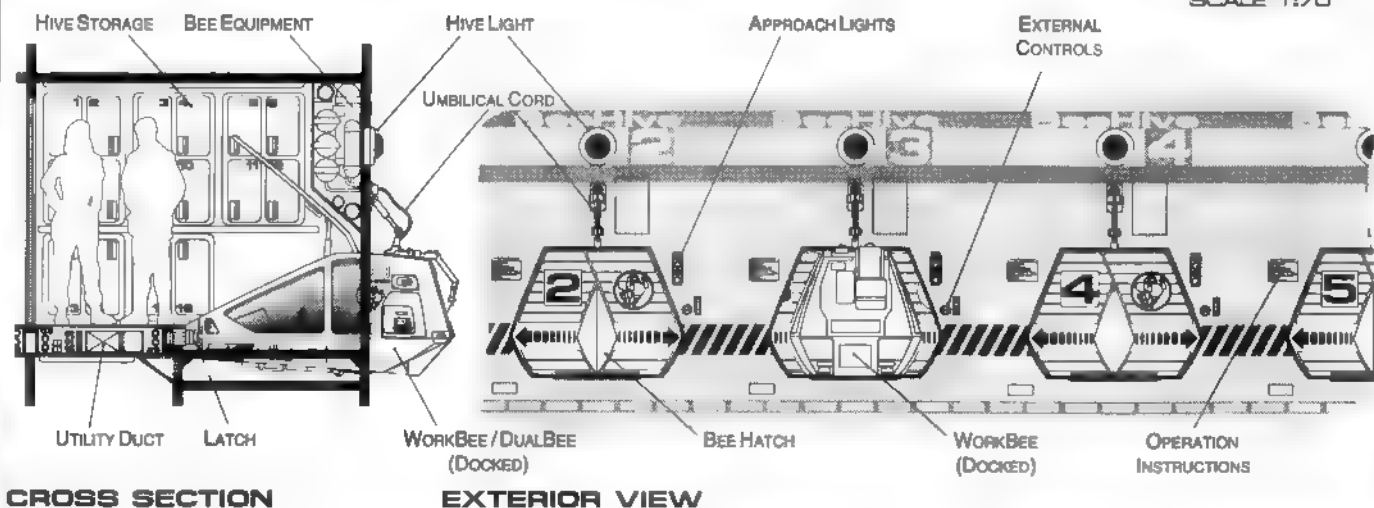
**Tractor Pack:** The Tractor Pack gives the Bee a tractor beam.

**Welder Pack:** The Welder Pack gives the Bee an external precision welder.

**BeeHive:** The BeeHive is an adjustable docking port for both DualBees and WorkBees.

## BeeHive [WorkBee/DualBee Docking Port]

METERS  
0 0.5 1 1.5 2  
SCALE 1:70



FEDERATION CRAFT



# GENERAL UTILITY CRAFT

WORKBEE CLASS

## Statistics

Classification: High Utility Craft  
Category: Shuttlecraft

Type (Model):

Nova Construction Contract

Dimensions:

Overall Dimensions (Meters):

Length m

Width m

Height m

Displacement (Metric Tons):

Light mt

Standard mt

Full Load mt

Performance:

Impulse Units

Impulse Engine Output Watts

Max Cruising

Acceleration Rate

0.00-0.25 Impulse sec

0.25-0.50 Impulse sec

0.50-0.75 Impulse sec

0.75-Pull Impulse sec

Warp 1-1.5

Warp Engine Output Watts

Optimum Speed Warp

Max Safe Cruising Warp

Emergency Speed Warp

Max Sprint Warp

Descent Speed Warp

Acceleration Power

Acceleration Times

Warp 1 - Warp 2 sec

Warp 2 - Warp 3 sec

Warp 3 - Warp 4 sec

Warp 4 - Warp 5 sec

Warp 5 - Warp 6 sec

Warp 6 - Warp 7 sec

Warp 7 - Warp 8 sec

Warp 8 - Warp 9 sec

Warp 9 - Warp 10 sec

Warp 10 - Warp 11 sec

Warp 11 - Warp 12 sec

Warp 12 - Warp 13 sec

Warp 13 - Warp 14 sec

Warp 14 - Warp 15 sec

Warp 15 - Warp 16 sec

Warp 16 - Warp 17 sec

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Warp 214 - Warp 215 sec

Warp 215 - Warp 216 sec

Warp 216 - Warp 217 sec

Warp 217 - Warp 218 sec

Warp 218 - Warp 219 sec

Warp 219 - Warp 220 sec

Warp 220 - Warp 221 sec

Warp 221 - Warp 222 sec

Warp 222 - Warp 223 sec

Warp 223 - Warp 224 sec

Warp 224 - Warp 225 sec

Warp 225 - Warp 226 sec

Warp 226 - Warp 227 sec

Warp 227 - Warp 228 sec

Warp 228 - Warp 229 sec

Warp 229 - Warp 230 sec

Warp 230 - Warp 231 sec

Warp 231 - Warp 232 sec

Warp 232 - Warp 233 sec

Warp 233 - Warp 234 sec

Warp 234 - Warp 235 sec

Warp 235 - Warp 236 sec

Warp 236 - Warp 237 sec

Warp 237 - Warp 238 sec

Warp 238 - Warp 239 sec

Warp 239 - Warp 240 sec

Warp 240 - Warp 241 sec

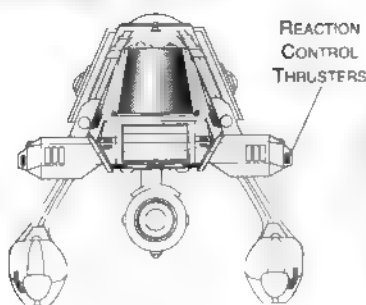
Warp 241 - Warp 242 sec

Warp 242 - Warp 243 sec

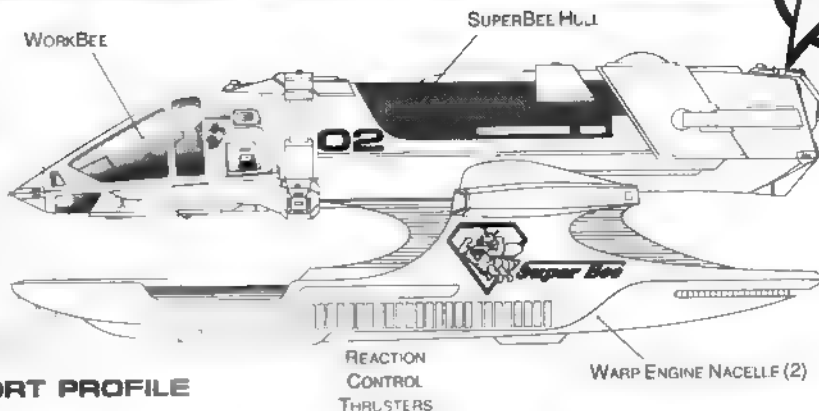
Warp 243 -

# GENERAL UTILITY CRAFT

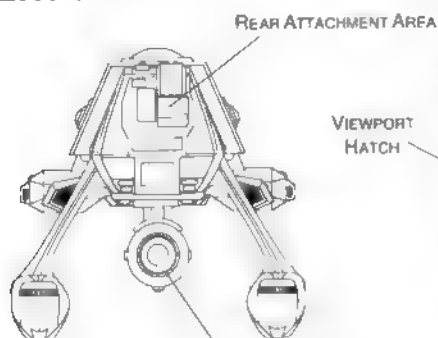
## SuperBee



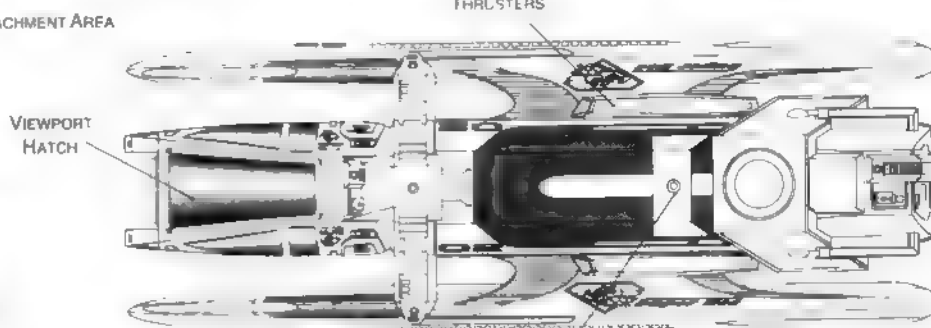
FRONT PROFILE



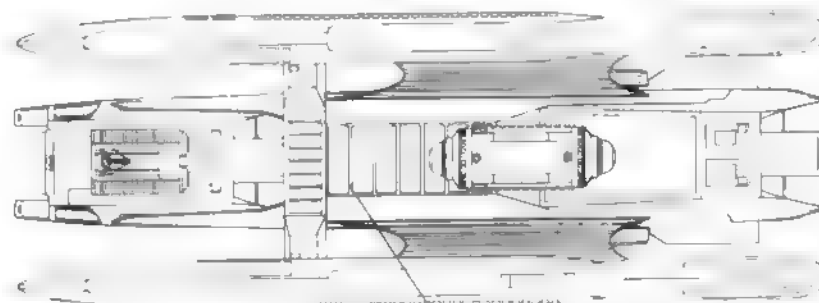
PORT PROFILE



REAR PROFILE



TOP PROFILE



BOTTOM PROFILE



### Class Emblem SuperBee



### Craft Silhouettes

Total Target Area 33.33 m<sup>2</sup>



Front Silhouette  
Area 3.24 m<sup>2</sup>



Port Silhouette  
Area 13.45 m<sup>2</sup>



Top Silhouette  
Area 16.64 m<sup>2</sup>

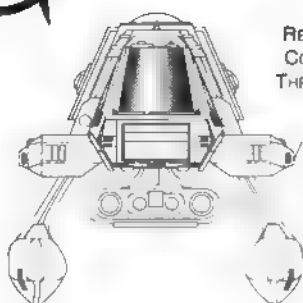


# GENERAL UTILITY CRAFT

## KillerBee

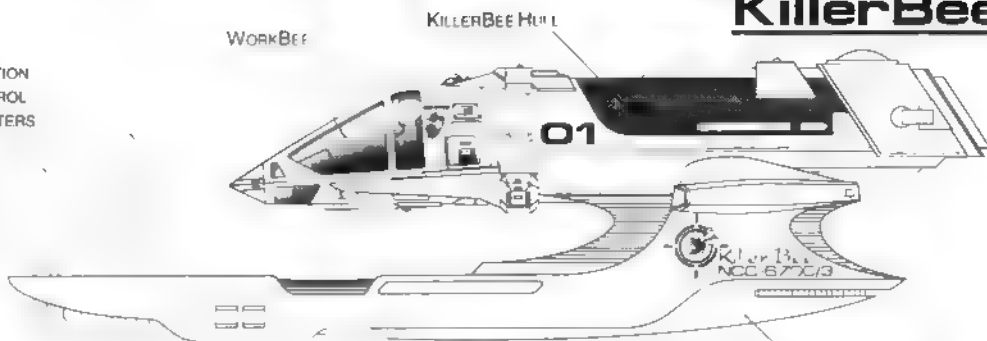
WORKBEE CLASS

FEDERATION CRAFT



FRONT PROFILE

REACTION  
CONTROL  
THRUSTERS



PORT PROFILE

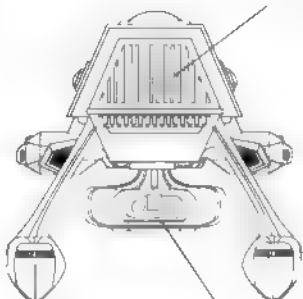
WORKBEE

KILLERBEE HULL

01

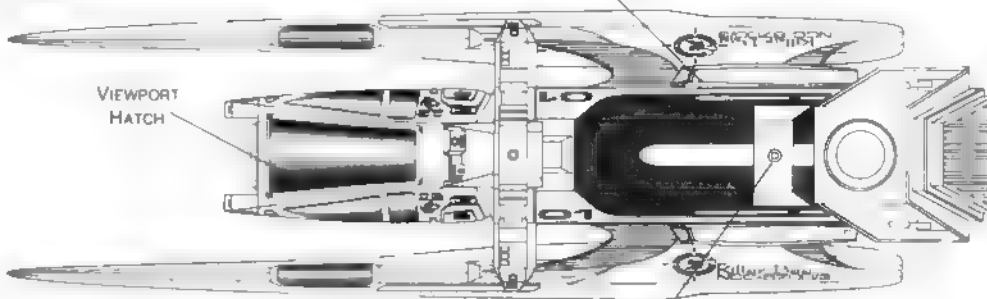
WARP ENGINE NACELLE (2)

REACTION  
CONTROL  
THRUSTERS



REAR PROFILE

IMPULSE ENGINE

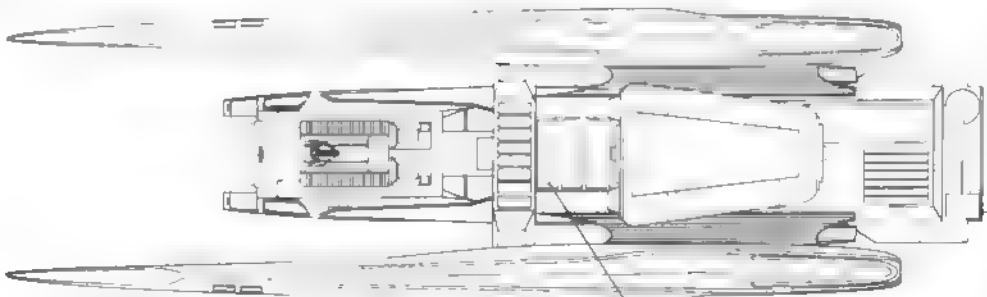


TOP PROFILE

VIEWPORT  
HATCH

NAVIGATION BEACON

WEAPONS POD



BOTTOM PROFILE

LOWER SENSOR ARRAY



### Class Emblem Killer Bee



### Craft Silhouettes

Total Target Area 32.02 m<sup>2</sup>



Front Silhouette  
Area 3.43 m<sup>2</sup>



Port Silhouette  
Area 12.71 m<sup>2</sup>

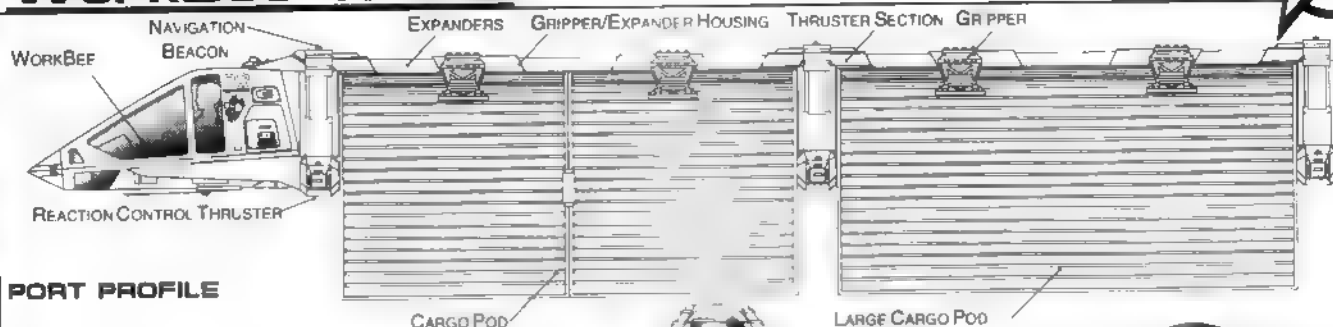


Top Silhouette  
Area 15.95 m<sup>2</sup>

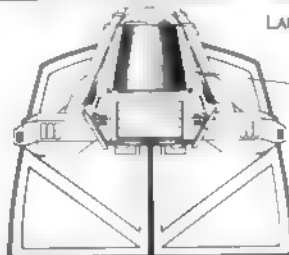
# GENERAL UTILITY CRAFT



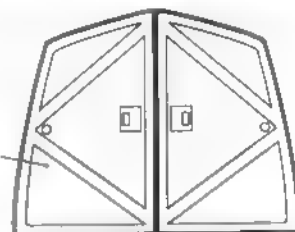
## WorkBee Trains



PORT PROFILE

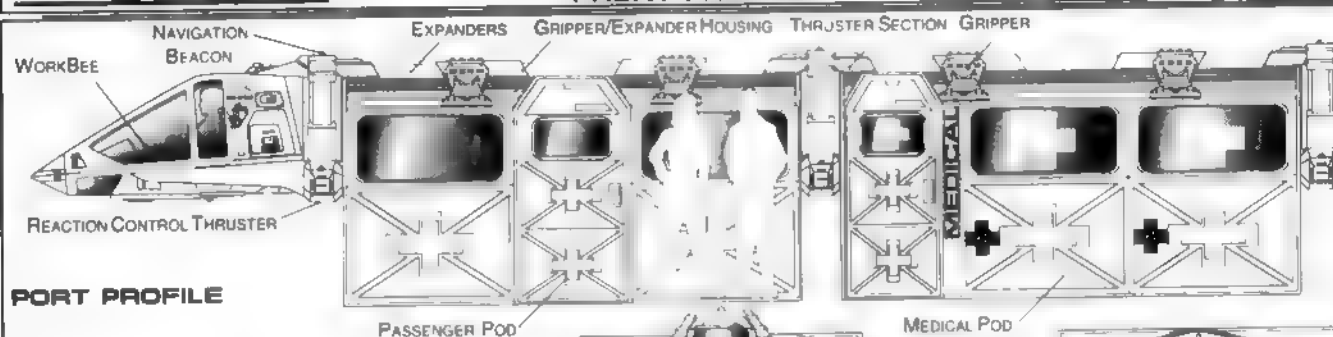


FRONT PROFILE

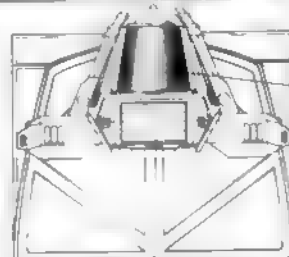


POD FRONT PROFILE

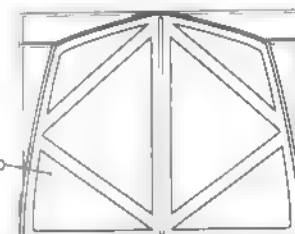
## Cargo Train



PORT PROFILE

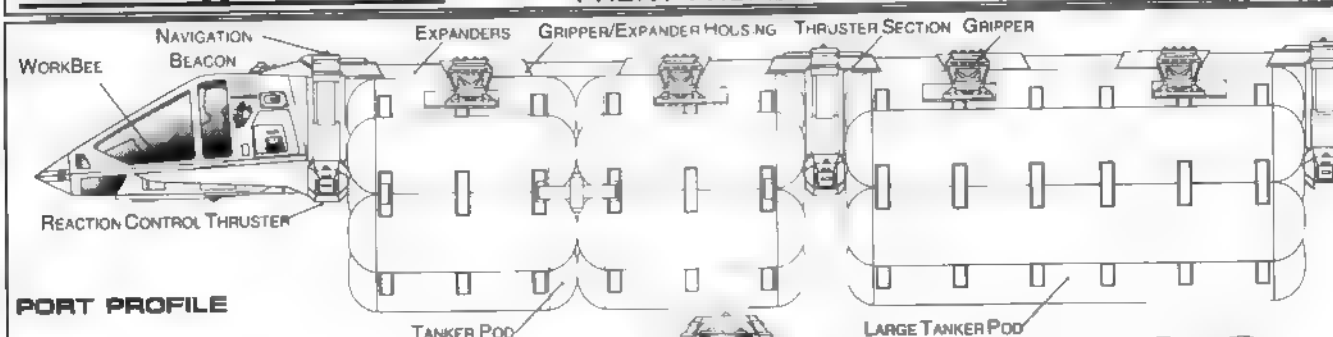


FRONT PROFILE

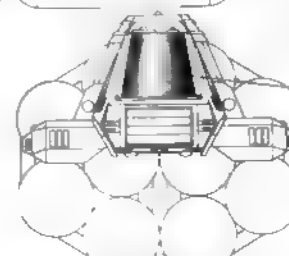


POD FRONT PROFILE

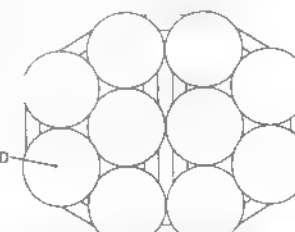
## Passenger Train



PORT PROFILE

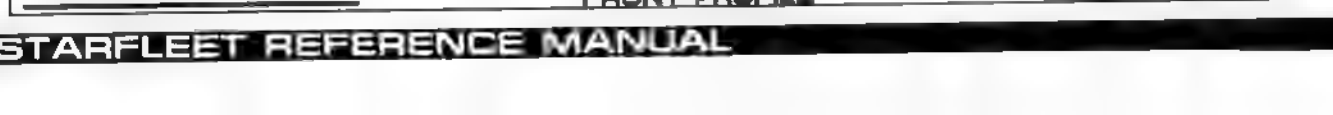


FRONT PROFILE



POD FRONT PROFILE

## Tanker Train



PORT PROFILE



FRONT PROFILE



POD FRONT PROFILE

WORKBEE CLASS

FEDERATION CRAFT

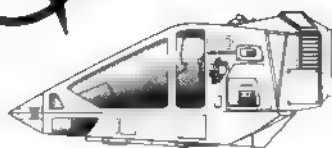




# GENERAL UTILITY CRAFT

## Bee Packs

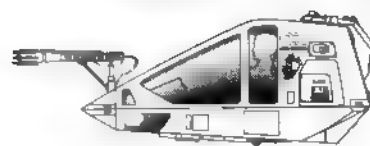
Booster Pack



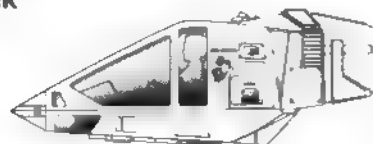
Clamper Pack



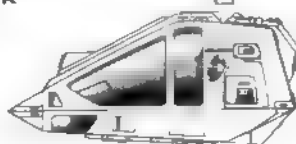
Cutter Pack



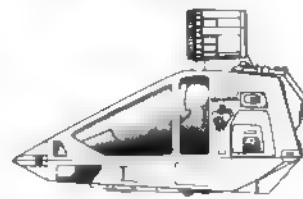
Heavy Booster Pack



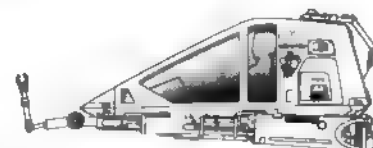
Drone Pack



Floodlight Pack



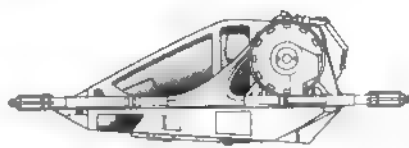
Grabber Pack



Sensor Pack



Spinner Pack



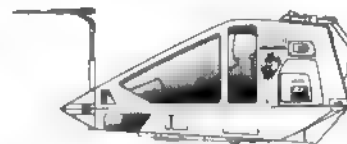
Survey Pack



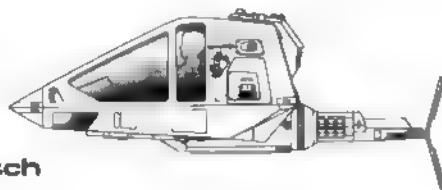
Tractor Pack



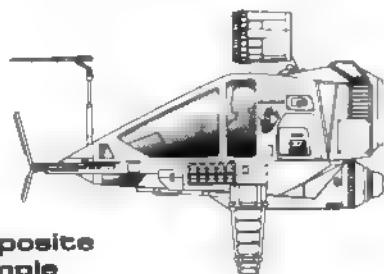
Welder Pack



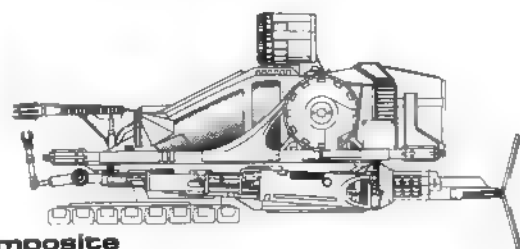
Tow Hitch Pack



Composite Example



Composite Example 2



## WorkBee Attachment Compatibility Chart



	Dual Bee	Work Bee	Assault Bee	Cargo Train	Killer Bee	Passenger Train	Super Bee	Tanker Train	Booster Pack	Clamper Pack	Cutter Pack	Drone Pack	Floodlight Pack	Grabber Pack	Heavy Booster Pack	Sensor Pack	Spinner Pack	Survey Pack	Tow Hitch Pack	Tractor Pack	Welder Pack
Dual Bee																					
Work Bee																					
Assault Bee																					
Cargo Train																					
Killer Bee																					
Passenger Train																					
Super Bee																					
Tanker Train																					
Booster Pack																					
Clamper Pack																					
Cutter Pack																					
Drone Pack																					
Floodlight Pack																					
Grabber Pack																					
Heavy Booster Pack																					
Sensor Pack																					
Spinner Pack																					
Survey Pack																					
Tow Hitch Pack																					
Tractor Pack																					
Welder Pack																					

A Adapter Required T In Tow R Repositioned I Impaired Use

# STANDARD SHUTTLECRAFT



## General Information

**Specific Role** The Standard Shuttlecraft is the most common warp capable shuttle employed by the Federation. The Shuttle is useful for a large array of missions due to its versatility, speed, range and large interior space.

**Physical Description** The hull is a long wedge shape and has with three doors for personnel and equipment. Two doors are located on either side and the third serves as a cargo hatch located at the rear. Positioned on either side of the shuttle are (SMDN8/3-4) navigational sensor arrays. The shuttle is equipped with a (BP1/6-1D) phaser mounted in the top cowlings. Sublight propulsion is provided by an impulse drive unit located on the lower rear section of the craft. Warp power is provided by two (SW9/1-3AG) micro-nacelles which are mounted on each side of the hull.

For additional detail refer to Datasheet MVT-1

## Craft Silhouettes

Total Target Area 81.13 m<sup>2</sup>

Average Target Area 20.38 m<sup>2</sup>

Top Silhouette

Area 33.85 m<sup>2</sup>



Port Silhouette

Area 19.35 m<sup>2</sup>



Front Silhouette

Area 7.83 m<sup>2</sup>



## Statistics

**Classification:** Standard Shuttlecraft

**Category:** Shuttlecraft

**Class:** Galileo

**Type:** Class 5

**Model:** MK-III

**Naval Construction Contract:** 3400

**Manufacturer:**

**Overall Dimensions (Meters)**

Length: 8.73m

Width: 4.50m

Height: 2.81m

**Displacement (Metric Tons)**

Light: 18.43mt

Standard: 19.75mt

Full Load: 22.04mt

**Performance:**

**Impulse Units:** Dual Unit (IP47E/4-IP)

**Impulse Engine Output:** 7.8x10<sup>8</sup> W

**Max Cruising:** C

**Acceleration Rate:**

0.00-0.25 Impulse: 0.137 sec

0.25-0.50 Impulse: 0.206 sec

0.50-0.75 Impulse: 0.275 sec.

0.75-Full Impulse: 0.343 sec.

**Warp Units:** 2 Nacelle Units (SW08/1-4AX)

**Warp Engine Output:** 1.2x10<sup>7</sup> W

**Optimum Speed:** Warp 2

**Max. Safe Cruising:** Warp 3

**Emergency Speed:** Warp 4

**Max. Speed:** Warp 4.2

**Destructive Speed:** Warp 4.5

**Acceleration Power:** 3.0

**Acceleration Times:**

Warp 1 - Warp 2: 2.450 sec

Warp 2 - Warp 3: 2.987 sec

Warp 3 - Warp 4: 5.684 sec

Warp 4 - Warp 5: N/A

Warp 5 - Warp 6: N/A

Warp 6 - Warp 7: N/A

Warp 7 - Warp 8: N/A

Warp 8 - Warp 9: N/A

Warp 9 - Warp 9.5: N/A

Warp 9.5 - Warp 9.75: N/A

Warp 9.75 - Warp 9.9: N/A

**Duration (Years)**

Standard: 5 Years

Maximum: 20 Years

**Std. Ships Complement:** 1

Crew: 1

Passengers: 9

Emergency condition: +6

**Transporters Total:** 1

1 Person: 0

2 Person: 1

3 Person: 0

Small Cargo: 0

Medium Cargo: 0

**Tractor Beams:** 1

**Tow Capacity:** 5.10x10<sup>2</sup> mt

**Max Range:** 7.10x10<sup>1</sup> km

**Cargo Specification:**

**Standard Cargo Units:** N/A

**Cargo Capacity:** N/A

**Shuttlecraft Specifications:**

**Docking Ports:** 0

**Cloaking Devices:** 0

**Sensor Index Values:**

**Planetary Survey:** 1.254

**Stellar Survey:** 0.942

**Short Range:** 1.111

**Long Range:** 1.025

**Navigation:** 0.987

**Special:** 1.123

**Computers:** 2

**Type:** Norray-Magne 171

**Type:** Norray-Magne 13.x

**Shield Rating:**

**Holdoff Power:** 4.72x10<sup>8</sup> W

**Refresh Rate:** 1.34x10<sup>8</sup> W

**Breakdown Rate:** 1.81x10<sup>8</sup> W

**Shield Dimensions (Meters)**

Length: 10.50m

Width: 3.04m

Height: 2.20m

**Weapons:**

**Weapon Placement:**

**Beam (Phasers) Total:** 1 Mounts

**Output:** 5.0x10<sup>8</sup> W / 2.5x10<sup>8</sup> W

**Range:** 2.5x10<sup>3</sup> km

**Rate of Fire:** 20 ppm / Cont

**Forward Banks:** 1

**Rear Banks:** 0

**Port Banks:** 0

**Starboard Banks:** 0

**Upper Banks:** 0

**Lower Banks:** 0

**Beam (HeavyPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Forward/Rear Banks:** 0

**Port/Starboard Banks:** 0

**Upper/Lower Banks:** 0

**Missiles (Photon) Total:** N/A

**Stock:** N/A

**Range:** N/A

**Output:** N/A

**Rate of Fire:** N/A

**Forward Bay:** 0

**Rear Bay:** 0

**Port Bay:** 0

**Starboard Bay:** 0

**Upper Bay:** 0

**Lower Bay:** 0

## Class Emblem



**Galileo Class • Shuttlecraft**

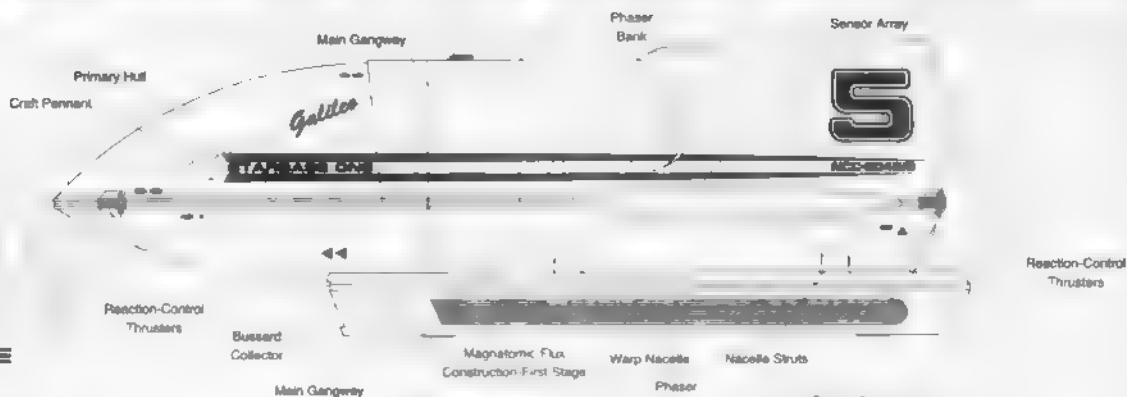


# STANDARD SHUTTLECRAFT

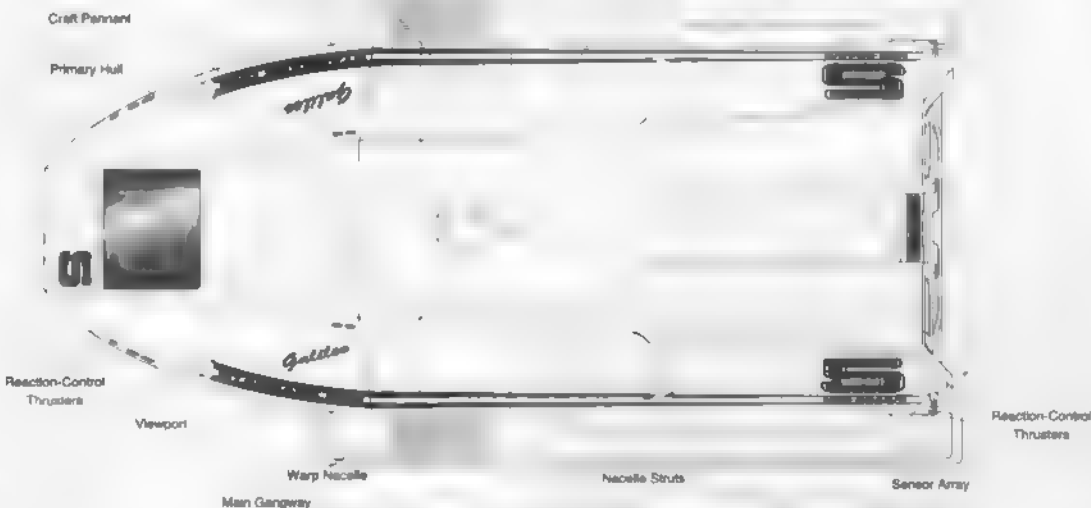
GALILEO CLASS

FEDERATION CRAFT

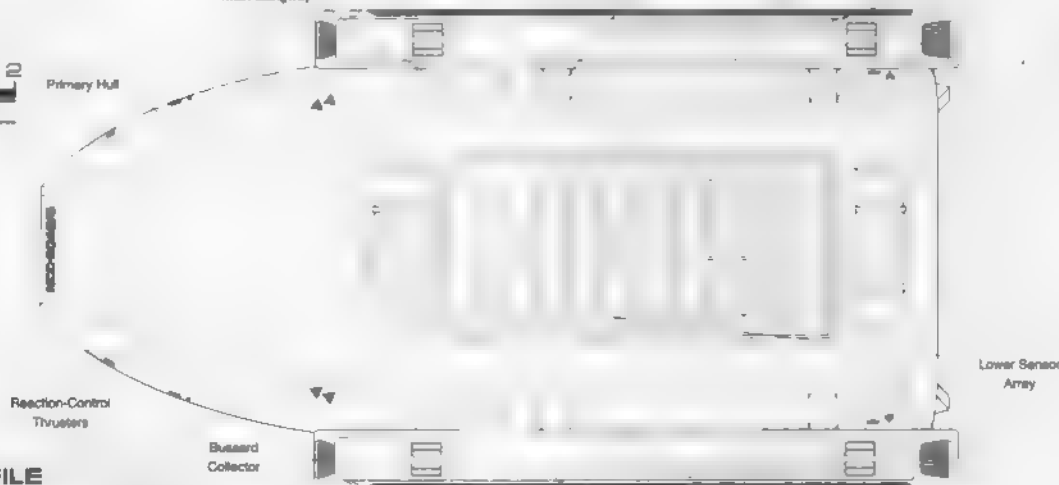
PORT PROFILE



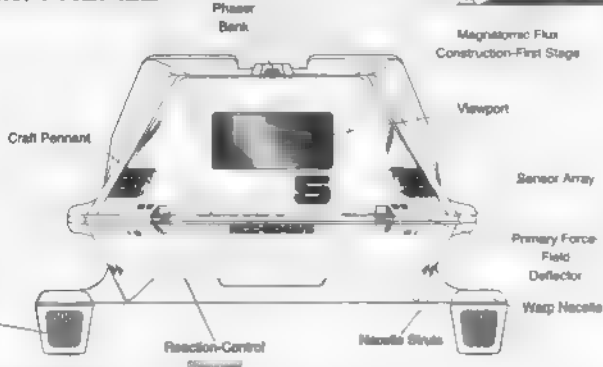
TOP PROFILE



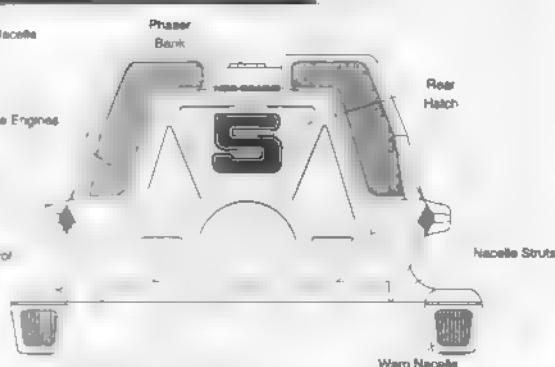
BOTTOM PROFILE



FRONT PROFILE



REAR PROFILE

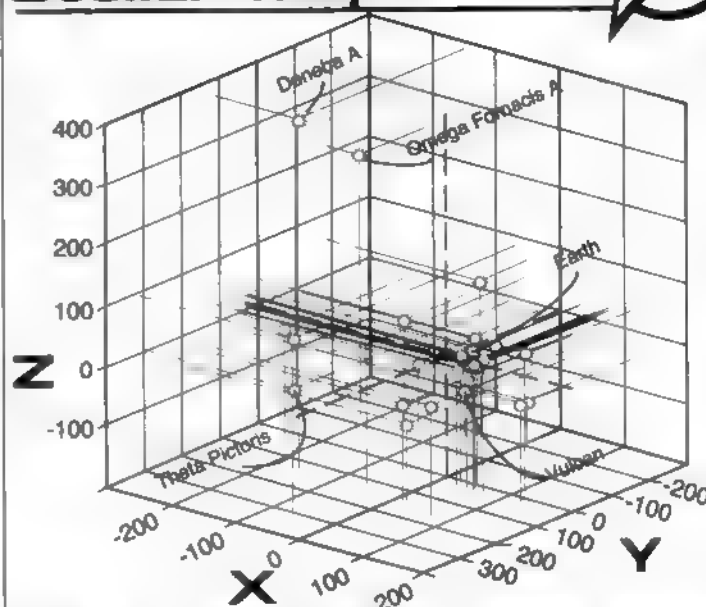


# DRYDOCKS

## General Information

The Dry Dock facilities are designed for the construction and repair of starships. Drydocks are equipped with ultra-accurate sensors to provide the construction facility with a reference grid for precision positioning of components. Large work lights provide ample illumination throughout the work area. Some facilities are equipped with offices, living space, shops and hangars. Other facilities are flexible and can be expanded to accommodate a wide variety of repair and construction jobs. Most facilities must be towed to their destination or work area, while others are designed to propel themselves to wherever their services are required.

## Stellar Map



## Major Dry Docks\*\*

Yard Name	Planet	System	Stellar Coordinates	Dry Dock Type					Production		Construction		Status
				I	II	III	IV	Total	Civilian	Military	Repair	New	
Antares Ship Yards	Antares III	Antares	(152.7, 23.5, 43.3)	0	3	0	0	3	55%	45%	62%	38%	D
Barrington Industries	Sauria	UFC 512	(-166.3, -43.3, 62.1)	1	1	1	0	3	24%	76%	78%	22%	D
Bekkaas Military Installation	Izar	Epsilon Bootis	(36.7, 84.7, 17.6)	3	4	5	1	13	12%	88%	30%	70%	B
Boeing-Matsushita	Zeta Tucanae III	Zeta Tucanae	(43.9, 45.8, -2.3)	2	1	0	0	3	70%	30%	36%	64%	D
Boston Construction Complex	Earth	Sol	(23.9, 61.8, 0.0)	5	2	1	1	9	40%	60%	40%	60%	C
Cameron Naval Center	Deneb V	Deneb A	(142.7, -143.4, 382.5)	3	2	5	0	10	21%	79%	5%	95%	B
Cochrane Industries	Alpha Centari VII	Alpha Centari	(24.6, 62.5, -1.0)	7	5	2	3	17	15%	85%	85%	35%	A
Dared Shipyards	Argelius II	Argelius B	(-154.7, -58.2, -121.2)	0	1	0	4	5	100%	0%	34%	66%	C
Duotecnica Industries	Luna	Sol	(23.9, 61.8, 0.0)	3	0	2	0	5	62%	38%	21%	79%	C
Entropy Space Facilities	Aurelia	XI Herculis	(176.7, 44.5, -63.3)	0	1	2	0	3	54%	46%	21%	79%	D
Fasis Assembly Installation	Eta Serpentis	Serpentis	(40.8, 61.6, 7.2)	2	2	0	0	4	44%	56%	65%	35%	D
Geomry Assembly Area	Medusa	XI Hydrae	(27.2, 137.6, -41.3)	0	3	1	0	4	90%	10%	35%	65%	D
Harlsburg Ship Works	Condan III	Condan	(29.7, 64.3, 29.9)	2	3	0	0	5	100%	0%	38%	62%	C
Harrell Hullworks	Catulla	Theta Pictoris	(277.8, -73.7, -13.9)	0	2	1	0	3	45%	55%	22%	78%	D
Karinton Space Facility	Janus VI	Janus	(-128.8, -30.1, -15.8)	2	2	0	0	4	21%	79%	55%	45%	D
Lancing Assembly Dock	Kaferia	Tau Ceti	(22.8, 58.7, -1.5)	3	1	0	0	4	21%	79%	22%	78%	D
Mashal Fields	Andor	Epsilon IOT	(25.8, 60.1, -2.4)	2	2	1	0	5	65%	35%	34%	66%	C
Merimar Ship Works	Rigel IV	Rigel	(209.9, 7.7, -136.0)	4	0	7	3	14	25%	75%	22%	78%	B
Merria Spacecity	Benzar	Gamma Xertia	(301.4, -57.4, 84.4)	4	3	1	2	10	88%	12%	62%	38%	B
Miami Naval Yards	Earth	Sol	(23.9, 61.8, 0.0)	4	1	0	1	6	80%	20%	80%	20%	C
New Aberdeen Yards	Alderbaran III	Alpha Tauri	(10.6, 56.5, -15.1)	2	2	0	1	5	30%	70%	20%	80%	C
Orbital Assembly Station	Starbase 16	Messier 12	(30.5, 82.5, 22.6)	3	1	2	1	7	54%	46%	11%	89%	C
Parinton Assembly Station	Delta	Delta Tricatu	(187.3, 89.9, -17.3)	0	3	0	0	3	65%	35%	90%	10%	D
Quarian Assembly Yards	Argo	UFC 78858	(133.4, -45.5, 32.9)	4	0	0	0	4	54%	46%	34%	66%	D
Roseanna Assembly Yards	Carit	T5 Lyncis	(41.9, -228.3, -12.6)	0	1	2	3	6	18%	82%	50%	50%	C
Rowington Yards	Makus III	Makus	(-8.6, 124.6, 32.5)	2	2	1	0	5	80%	20%	40%	60%	C
San Francisco Yards	Earth	Sol	(23.9, 61.8, 0.0)	7	3	1	5	16	3%	97%	10%	90%	A
Shane Yards	Actar	Cygnus D	(15.7, 35.7, 10.6)	2	0	1	0	3	78%	22%	65%	35%	D
Starbase 12	Gamma 400 III	Gamma 400	(22.5, 48.5, -0.55)	1	2	1	0	4	56%	44%	33%	67%	D
Starfleet Division	Deneb II	Deneb A	(142.7, -143.4, 382.5)	2	4	3	1	10	21%	79%	27%	73%	B
Station Rotterdam	Bentochia	Barnard 17	(18.7, 75.7, 12.6)	0	0	3	0	3	54%	46%	66%	34%	D
Tiburon Construction Yards	Tiburon	Omega Fornacis A	(-121.9, -207.4, 236.4)	0	1	2	0	3	68%	32%	32%	68%	D
Tindaris Star Vessels LTD	Vulcan	40 Eridania	(19.5, 60.0, -0.60)	4	1	2	0	7	78%	22%	15%	85%	C
Urbuaris Construction Site	Darvan V	Darvan	(-127.5, -139.2, -19.7)	3	1	0	0	4	90%	10%	44%	56%	D
Utopia Planitia Starfleet Yards	Mars	Sol	(23.9, 61.8, 0.0)	7	2	5	5	19	2%	98%	4%	96%	A
Varius Spacedock	Betazed	Beta Veldonna	(-292.3, -93.3, -88.1)	2	2	1	0	5	97%	3%	54%	46%	C
Vega Shipyards	Vega	Alpha Lyrae	(28.2, 61.3, 6.9)	2	5	0	0	7	45%	55%	26%	74%	C
Vulcanis Space Facilities, Inc.	Vulcan	40 Eridania	(19.5, 60.0, -0.60)	5	5	2	3	15	90%	10%	30%	70%	A
Waters Installation	Beta VI	Beta	(-109.1, -106.3, -74.2)	1	5	1	0	7	65%	35%	12%	88%	C
Xarets Works	Tellar	61 Cygni	(25.0, 60.1, 2.6)	1	2	0	0	3	27%	73%	40%	60%	D
Dry Dock Totals				95	81	56	34	266					

Dry Dock Type: Lists the number and types of drydocks at each Yard.

Production: Lists the percent of military and civilian craft that are produced at each Yard.

Construction: Lists the percent of new construction and repair at each Yard.

Class: Designates the construction level of the dry dock. The best facilities are the Class A which are normally used for the construction of Class I Starships.

\* Type III Dry Docks are normally located at these installations when not needed on location.

\*\* Additional construction companies (Class E) exist and lease dry docks from the facilities listed here.

# DRY DOCK TYPE II



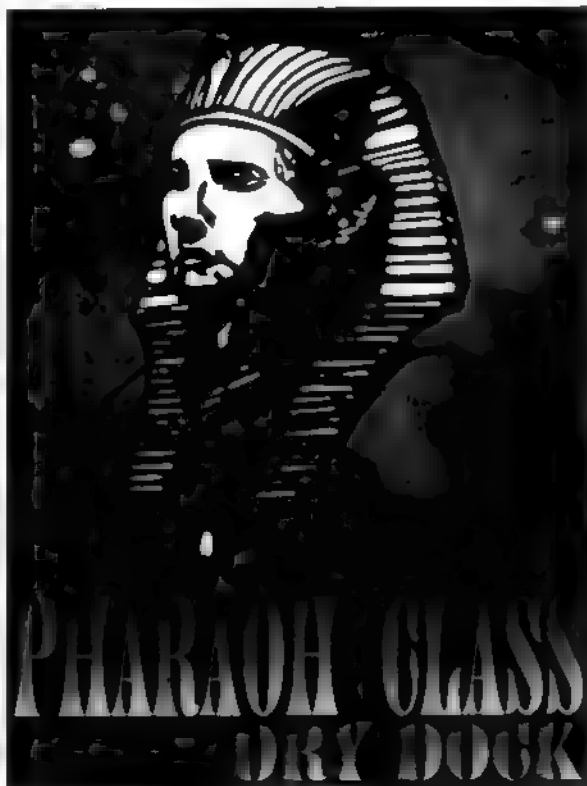
## General Information

**Specific Role:** This versatile drydock is designed to adjust its shape to closely match the configuration of the subject vessel. Additional sections may be added so that the frame can surround larger vessels. The extreme flexibility of the structure causes it to have less integral strength than some facilities which makes it unsuitable for more hazardous locations.

**Physical Description:** The facility is made up of eight (DD/F7-2A) rigid sections. These sections are connected to each other with flexible couplings. The work area is equipped with 42 (LF/5-B) high power light banks which are supported by duralloy cables throughout the superstructure. Attached to each light bank is an (SP/230-Z) positioning sensor for determining the exact location and positioning of the components for construction. Located at each joint is an (DI/200:TS) inertial dampener to help control the movement of the ship and components in the construction area.

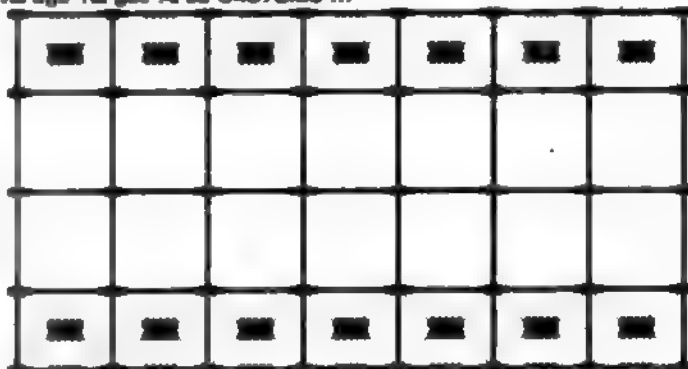
For additional detail refer to Datasheet MVDD-2

## Class Emblem



## Facility Silhouettes

Total Target Area 184818.28 m<sup>2</sup>  
Average Target Area 84878.09 m<sup>2</sup>



Top Silhouette  
Area 108859.13 m<sup>2</sup>



Side Silhouette  
Area 84815.46 m<sup>2</sup>



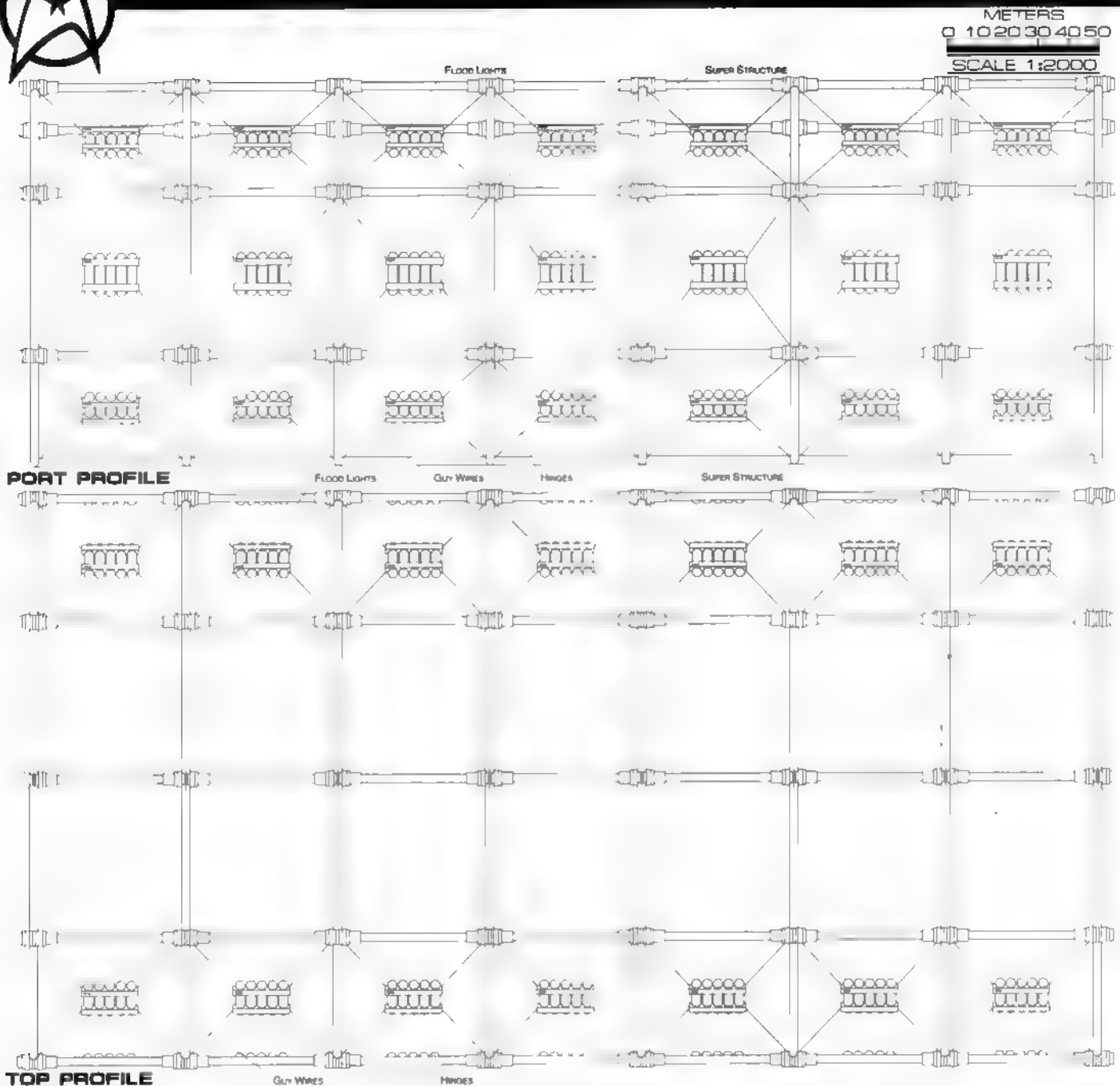
Front Silhouette  
Area 1341.89 m<sup>2</sup>



# DRY DOCK TYPE II

PHARAOH CLASS

FEDERATION FACILITY



## Statistics

**Classification:** Dry Dock  
**Category:** Type 2  
**Class:** Pharaoh  
**Type:** Class 4  
**Model:** Type II  
**Naval Construction Contract:** 200  
**Number Proposed:** 94  
**Number Constructed:** 83  
**Number in Service:** 81  
**Number Lost:** 2  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 362.52m  
 Width: 183.11m  
 Height: 127.01m  
**Displacement (Metric Tons)**  
 Light: 90,421mt  
 Standard: 95,552mt  
 Full Load: 101,283mt

**Duration (Years)**  
 Standard: 20 Years  
 Maximum: 40 Years  
**Std. Facility Complement:** 0  
**Officers:** 0  
**Crew (Ensign Grade):** 0  
**Emergency condition:** 0  
**Medical Facilities:**  
 Doctors: 0  
 Medical Staff: 0  
 Operating Rooms: 0  
 Beds: 0  
**Transporters Total:** 0  
 1 Person: 0  
 2 Person: 0  
 6 Person: 0  
 12 Person: 0  
 22 Person: 0  
 Small Cargo: 0

**Medium Cargo:** 0  
**Large Cargo:** 0  
**Super Cargo:** 0  
**Replicators:** 0  
**Major Tractor Beams:** 0  
 Tow Capacity: N/A  
 Max Range: N/A  
**Minor Tractor Beams:** 0  
 Tow Capacity: N/A  
 Max Range: N/A  
**Cargo Specification:**  
 Standard Cargo Units: 0  
 Cargo Capacity: 0  
**Shuttlecraft Specifications:**  
**Shuttlecraft Bays Total:** 0  
 Small Bay: 0  
 Medium Bay: 0  
 Large Bay: 0  
 Super Bay: 0

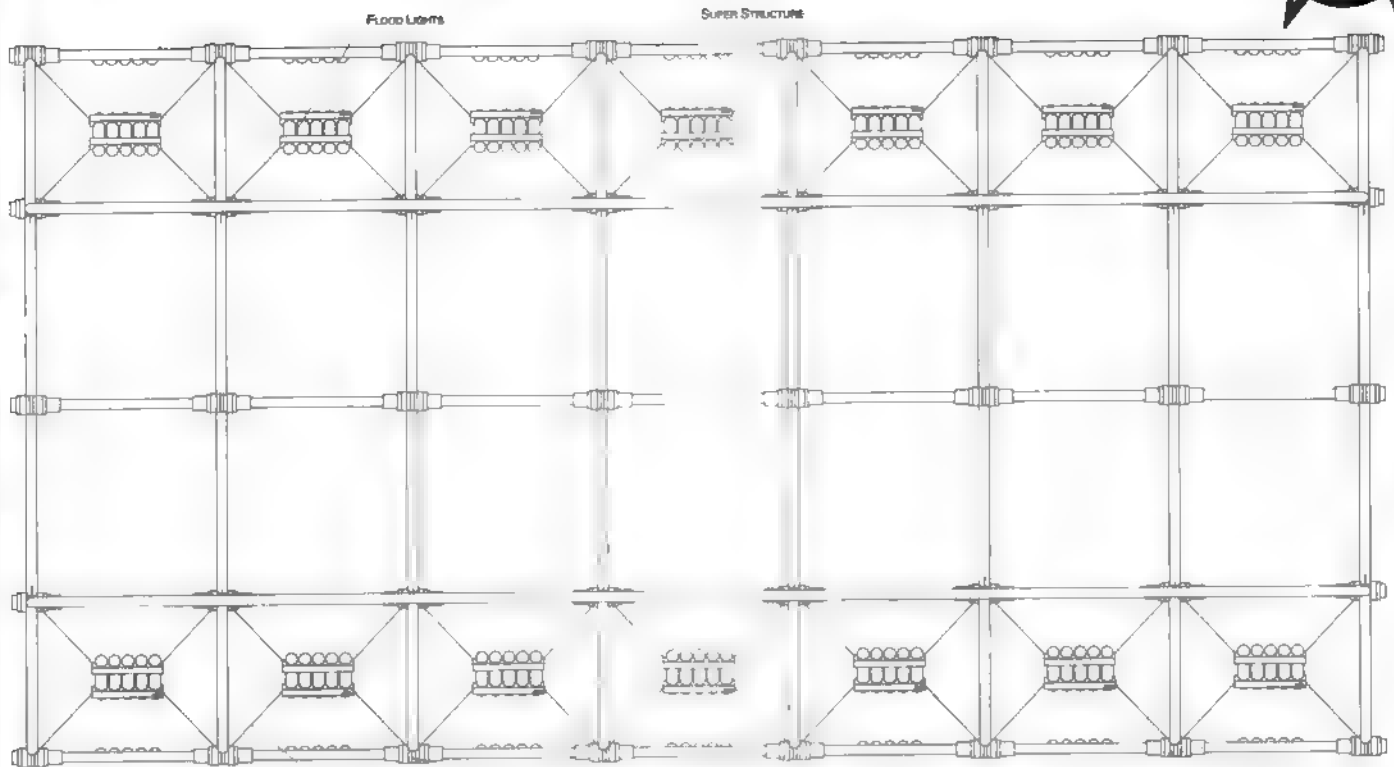
**Shuttlecraft Standard:** 0  
 Work Bee: 0  
 Tug Shuttle: 0  
 Work Shuttle: 0  
 Travel Pods: 0  
 Light Shuttle: 0  
 Standard Shuttle: 0  
 Heavy Shuttle: 0  
 Cargo Shuttle: 0  
 Lifeboats: 0  
 Turbolift (8 person): 0  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 0  
 Lifeboat (30 person): 0  
**Sensor Index Values:**  
 Alignment Sensor: 1101  
 Computers: 0  
 Type: N/A

# DRY DOCK TYPE II

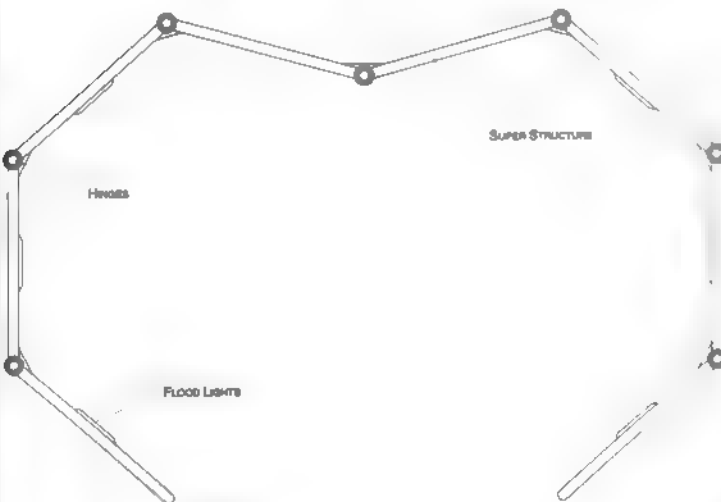


PHARADH CLASS

FEDERATION FACILITY

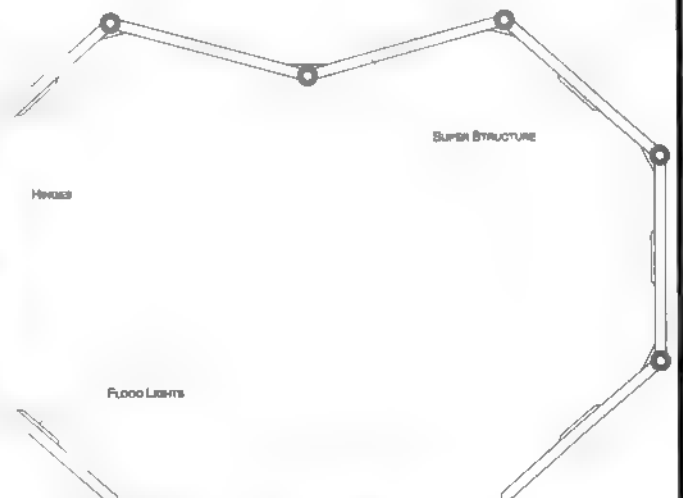


**BOTTOM PROFILE**



**FRONT PROFILE**

METERS  
0 10 20 30 40 50  
**SCALE 1:2000**



**REAR PROFILE**



# DRY DOCK TYPE II



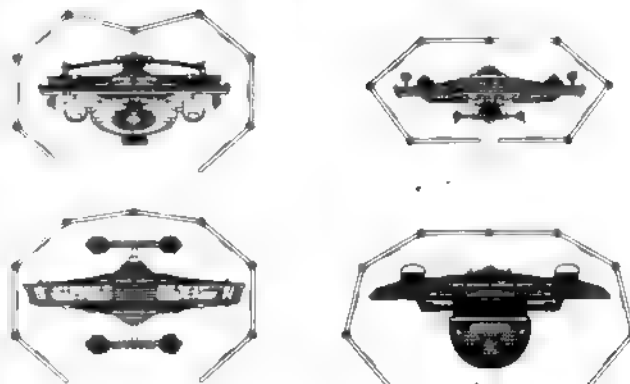
## Facility Names

THE FOLLOWING SHIPS OF THE TYPE II CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.4

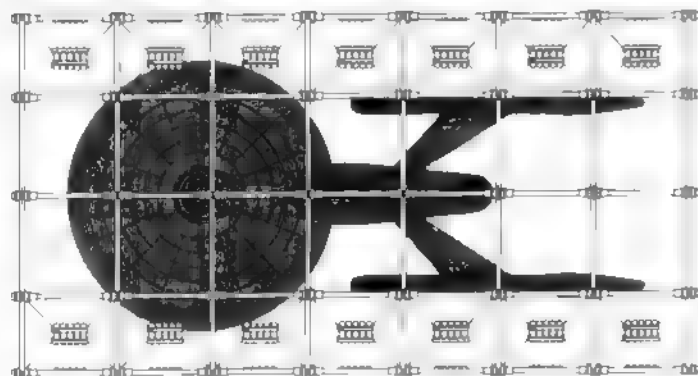
PHARAOH-1 • SFDD-200*	PHARAOH-25 • SFDD-225	PHARAOH-50 • SFDD-250	PHARAOH-75 • SFDD-275
PHARAOH-2 • SFDD-201	PHARAOH-26 • SFDD-226	PHARAOH-51 • SFDD-251	PHARAOH-76 • SFDD-276
PHARAOH-3 • SFDD-202	PHARAOH-27 • SFDD-227	PHARAOH-52 • SFDD-252	PHARAOH-77 • SFDD-277
PHARAOH-4 • SFDD-203	PHARAOH-28 • SFDD-228	PHARAOH-53 • SFDD-253	PHARAOH-78 • SFDD-278
PHARAOH-5 • SFDD-204	PHARAOH-29 • SFDD-229	PHARAOH-54 • SFDD-254	PHARAOH-79 • SFDD-279
PHARAOH-6 • SFDD-205	PHARAOH-30 • SFDD-230	PHARAOH-55 • SFDD-255	PHARAOH-80 • SFDD-280
PHARAOH-7 • SFDD-206	PHARAOH-31 • SFDD-231	PHARAOH-56 • SFDD-256	PHARAOH-81 • SFDD-281
PHARAOH-8 • SFDD-207	PHARAOH-32 • SFDD-232**	PHARAOH-57 • SFDD-257	PHARAOH-82 • SFDD-282
PHARAOH-9 • SFDD-208	PHARAOH-33 • SFDD-233	PHARAOH-58 • SFDD-258	PHARAOH-83 • SFDD-283***
PHARAOH-10 • SFDD-209	PHARAOH-34 • SFDD-234	PHARAOH-59 • SFDD-259	PHARAOH-84 • SFDD-284***
PHARAOH-11 • SFDD-210	PHARAOH-35 • SFDD-235	PHARAOH-60 • SFDD-260	PHARAOH-85 • SFDD-285***
PHARAOH-12 • SFDD-211	PHARAOH-36 • SFDD-236	PHARAOH-61 • SFDD-261	PHARAOH-86 • SFDD-286***
PHARAOH-13 • SFDD-212	PHARAOH-37 • SFDD-237	PHARAOH-62 • SFDD-262	PHARAOH-87 • SFDD-287***
PHARAOH-14 • SFDD-213	PHARAOH-38 • SFDD-238	PHARAOH-63 • SFDD-263	PHARAOH-88 • SFDD-288***
PHARAOH-15 • SFDD-214	PHARAOH-39 • SFDD-239	PHARAOH-64 • SFDD-264	PHARAOH-89 • SFDD-289***
PHARAOH-16 • SFDD-215**	PHARAOH-40 • SFDD-240	PHARAOH-65 • SFDD-265	PHARAOH-90 • SFDD-290***
PHARAOH-17 • SFDD-216	PHARAOH-41 • SFDD-241	PHARAOH-66 • SFDD-266	PHARAOH-91 • SFDD-291***
PHARAOH-18 • SFDD-217	PHARAOH-42 • SFDD-242	PHARAOH-67 • SFDD-267	PHARAOH-92 • SFDD-292***
PHARAOH-19 • SFDD-218	PHARAOH-43 • SFDD-243	PHARAOH-68 • SFDD-268	PHARAOH-93 • SFDD-293***
PHARAOH-20 • SFDD-219	PHARAOH-44 • SFDD-244	PHARAOH-69 • SFDD-269	
PHARAOH-21 • SFDD-220	PHARAOH-45 • SFDD-245	PHARAOH-70 • SFDD-270	
PHARAOH-22 • SFDD-221	PHARAOH-46 • SFDD-246	PHARAOH-71 • SFDD-271	
PHARAOH-23 • SFDD-222	PHARAOH-47 • SFDD-247	PHARAOH-72 • SFDD-272	
PHARAOH-24 • SFDD-223	PHARAOH-48 • SFDD-248	PHARAOH-73 • SFDD-273	
	PHARAOH-49 • SFDD-249	PHARAOH-74 • SFDD-274	

\*CLASS SHIP. \*\*LOST IN THE LINE OF DUTY. \*\*\*PROPOSED.

## Additional Shapes



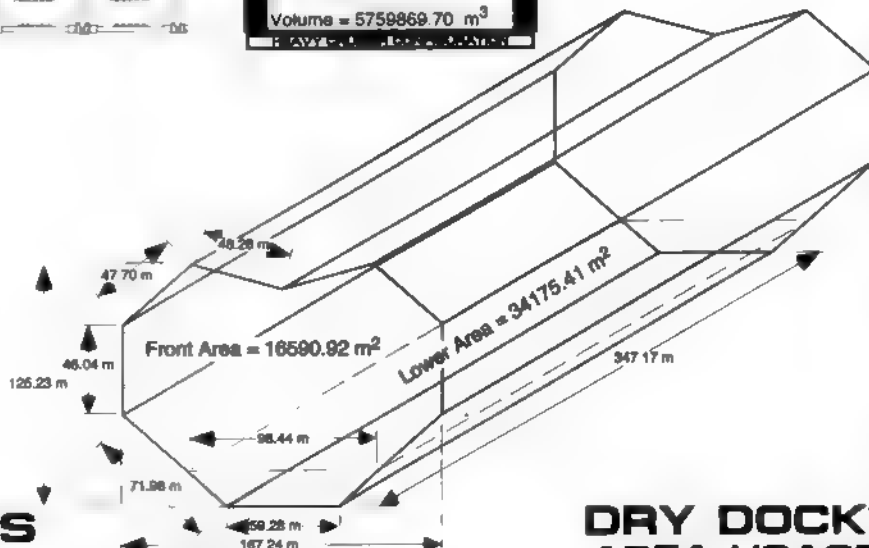
SIDE PROFILE  
WITH HEAVY CRUISER



TOP PROFILE  
WITH HEAVY CRUISER



FRONT PROFILE  
WITH HEAVY CRUISER



\*HEAVY CRUISER CONFIGURATION

## DRY DOCK PROFILES WITH HEAVY CRUISER

## DRY DOCK\* AREA USAGE

# DRY DOCK TYPE IV



## General Information

**Specific Role:** The Dry Dock Type IV is the replacement for the aging Type I. The Type IV is an extremely modular facility designed to be expanded to include repair and construction jobs as large as space stations.

**Physical Description:** The facility is made up of 14 (DD/M2-2S) modular side sections, 28 (DD/M2-3C) curved sections and 14 (DH/60-82C) hangar/storage sections. Each modular section is equipped with a (LF/2-C) dual, high power light bank for a total of 56 units. These light banks are supported by bars and duralloy cables. Additional lighting is provided by (MLF/43-A) adjustable floodlights that can be positioned as needed. Along the underside of the hangar/storage facility are the 120 (DI/148:AD) inertial dampeners to help control movement of the ship and parts in the construction area. Located on each light bank is a (SP/230-Z) positioning sensors for determining the exact location and positioning of the parts used for construction.

For additional detail refer to Datasheet MVDD-4

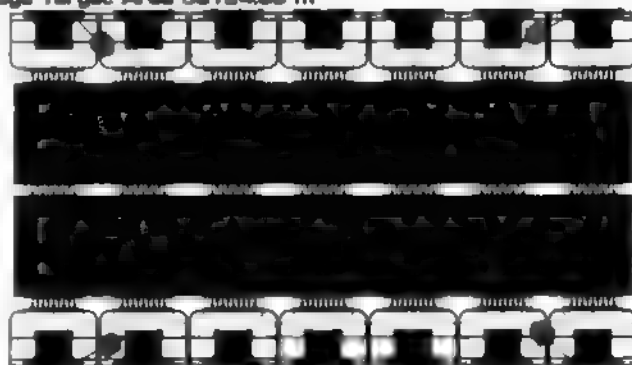
### Class Emblem



### Facility Silhouettes

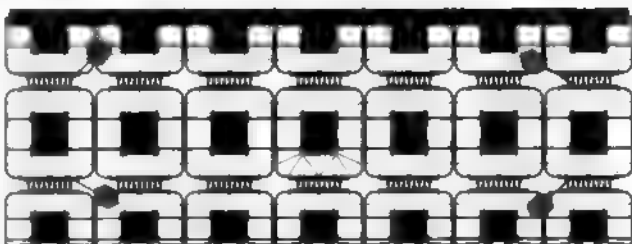
Total Target Area 177374.03 m<sup>2</sup>

Average Target Area 59124.68 m<sup>2</sup>



Top Silhouette

Area 84384.24 m<sup>2</sup>



Side Silhouette

Area 81147.98 m<sup>2</sup>

Front Silhouette

Area 1802.13 m<sup>2</sup>

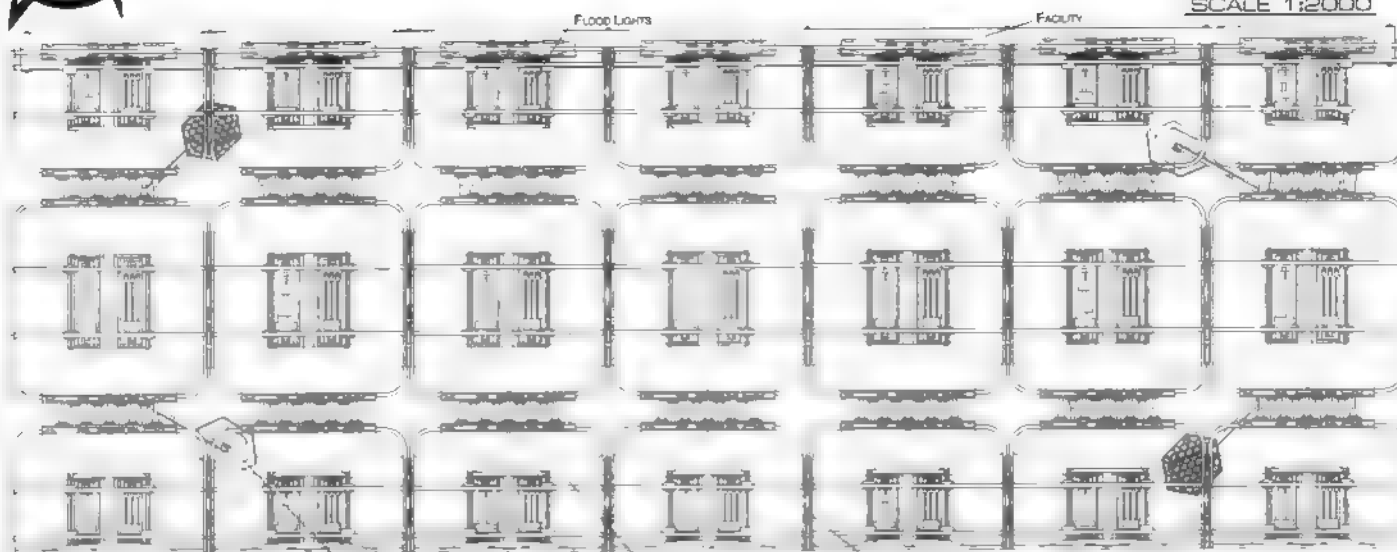




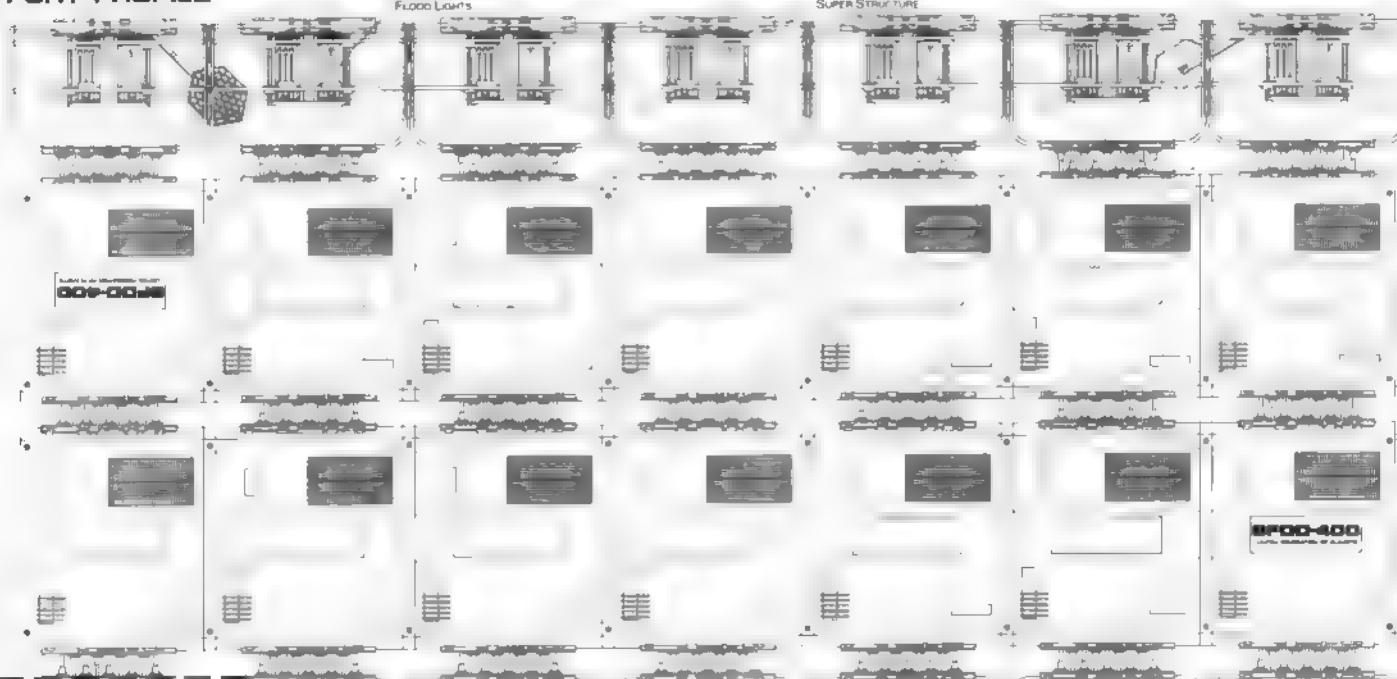
# DRY DOCK TYPE IV

METERS  
0 10 20 30 40 50  
SCALE 1:2000

MAYA CLASS



PORT PROFILE



TOP PROFILE

## Statistics

**Classification:** Dry Dock  
**Category:** Type 4  
**Class:** Maya  
**Type:** Class 4  
**Model:** Type IV  
**Naval Construction Contract:** 400  
**Number Proposed:** 92  
**Number Constructed:** 34  
**Number in Service:** 34  
**Number Lost:** 0  
**Dimensions**  
**Overall Dimensions (Meters)**  
Length: 368.37m  
Width: 208.58m  
Height: 138.32m  
**Displacement (Metric Tons)**  
Light: 260,487mt  
Standard: 280,587mt  
Full Load: 340,450mt

**Duration (Years)**  
Standard: 20 Years  
Maximum: 40 Years  
**Std. Facility Complement:** 300  
**Officers:** 40  
**Crew (Ensign Grade):** 260  
**Emergency condition:** +400  
**Medical Facilities:**  
Doctors: 4  
Medical Staff: 16  
Operating Rooms: 3  
Beds: 20  
**Transporters Total:** 11  
1 Person: 0  
2 Person: 0  
8 Person: 4  
12 Person: 0  
22 Person: 0  
Small Cargo: 2

**Medium Cargo:** 2  
**Large Cargo:** 2  
**Super Cargo:** 1  
**Replicators:** 20  
**Major Tractor Beams:** 1  
Tow Capacity: 3.74x106mt  
Max Range: 9.00x104km  
**Minor Tractor Beams:** 1  
Tow Capacity: 1.90x108mt  
Max Range: 4.70x104km  
**Cargo Specification:**  
Standard Cargo Units: 200  
Cargo Capacity: 10,000mt  
**Shuttlecraft Specifications:**  
**Shuttlecraft Bays Total:** 4  
Small Bay: 0  
Medium Bay: 0  
Large Bay: 4  
Super Bay: 0

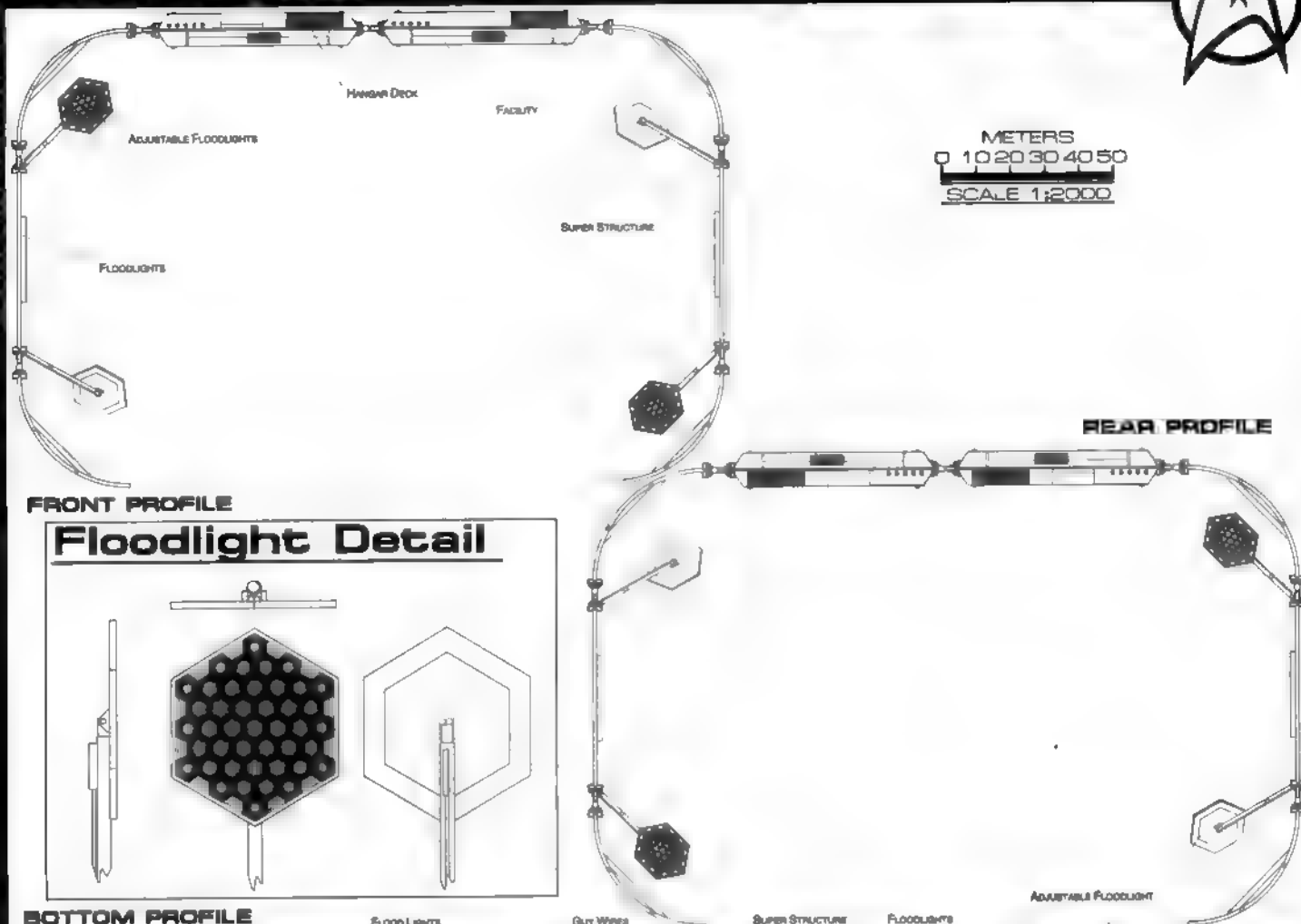
**Shuttlecraft Standard:** 110  
Work Bees: 40  
Tug Shuttle: 12  
Work Shuttle: 20  
Travel Pods: 10  
Light Shuttle: 4  
Standard Shuttle: 6  
Heavy Shuttle: 3  
Cargo Shuttle: 15  
Lifeboats: 10  
TurboLift (8 person): 4  
Lifeboat (10 person): 0  
Lifeboat (20 person): 6  
Lifeboat (30 person): 0  
**Sensor Index Values:**  
Alignment Sensor: 1.599  
**Computers:** 2  
Type: Daystrom Duotronic II: g  
Type: Daystrom Duotronic I: u

FEDERATION FACILITY

# DRY DOCK TYPE IV

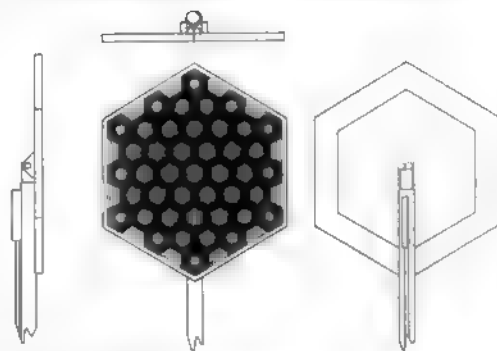


METERS  
0 10 20 30 40 50  
SCALE 1:2000

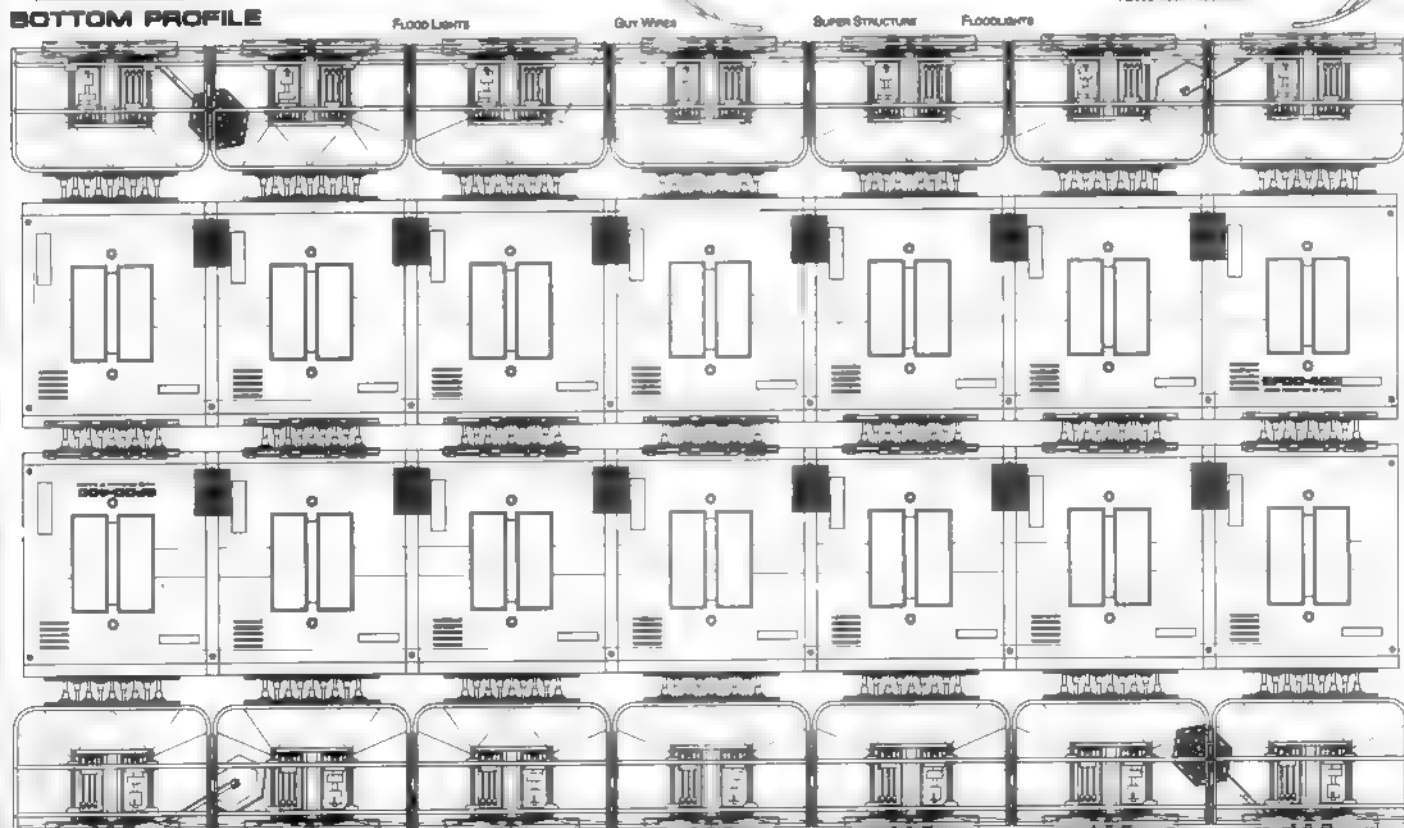


FRONT PROFILE

## Floodlight Detail



BOTTOM PROFILE





# DRY DOCK TYPE IV

## Facility Names

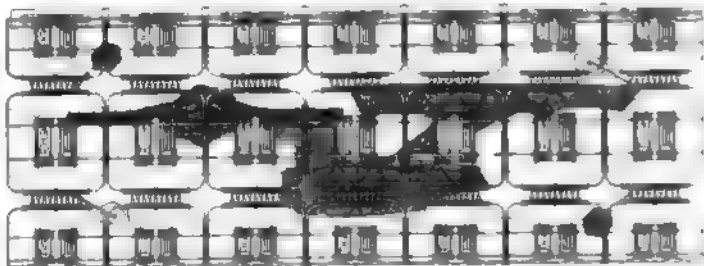
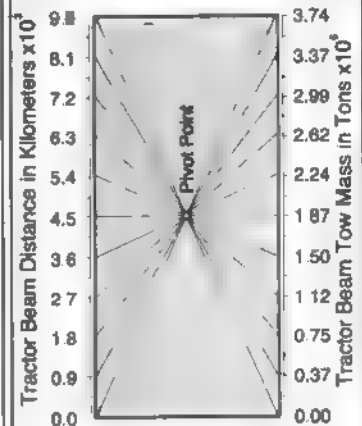
THE FOLLOWING SHIPS OF THE TYPE IV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2285.5

MAYA-1 • SFDD-400	MAYA-25 • SFDD-425	MAYA-50 • SFDD-450	MAYA-75 • SFDD-475
MAYA-2 • SFDD-401	MAYA-26 • SFDD-426	MAYA-51 • SFDD-451	MAYA-76 • SFDD-476
MAYA-3 • SFDD-402	MAYA-27 • SFDD-427	MAYA-52 • SFDD-452	MAYA-77 • SFDD-477
MAYA-4 • SFDD-403	MAYA-28 • SFDD-428	MAYA-53 • SFDD-453	MAYA-78 • SFDD-478
MAYA-5 • SFDD-404	MAYA-29 • SFDD-429	MAYA-54 • SFDD-454	MAYA-79 • SFDD-479
MAYA-6 • SFDD-405	MAYA-30 • SFDD-430	MAYA-55 • SFDD-455	MAYA-80 • SFDD-480
MAYA-7 • SFDD-406	MAYA-31 • SFDD-431	MAYA-56 • SFDD-456	MAYA-81 • SFDD-481
MAYA-8 • SFDD-407	MAYA-32 • SFDD-432	MAYA-57 • SFDD-457	MAYA-82 • SFDD-482
MAYA-9 • SFDD-408	MAYA-33 • SFDD-433	MAYA-58 • SFDD-458	MAYA-83 • SFDD-483
MAYA-10 • SFDD-409	MAYA-34 • SFDD-434	MAYA-59 • SFDD-459	MAYA-84 • SFDD-484
MAYA-11 • SFDD-410	MAYA-35 • SFDD-435	MAYA-60 • SFDD-460	MAYA-85 • SFDD-485
MAYA-12 • SFDD-411	MAYA-36 • SFDD-436	MAYA-61 • SFDD-461	MAYA-86 • SFDD-486
MAYA-13 • SFDD-412	MAYA-37 • SFDD-437	MAYA-62 • SFDD-462	MAYA-87 • SFDD-487
MAYA-14 • SFDD-413	MAYA-38 • SFDD-438	MAYA-63 • SFDD-463	MAYA-88 • SFDD-488
MAYA-15 • SFDD-414	MAYA-39 • SFDD-439	MAYA-64 • SFDD-464	MAYA-89 • SFDD-489
MAYA-16 • SFDD-415	MAYA-40 • SFDD-440	MAYA-65 • SFDD-465	MAYA-90 • SFDD-490
MAYA-17 • SFDD-416	MAYA-41 • SFDD-441	MAYA-66 • SFDD-466	MAYA-91 • SFDD-491
MAYA-18 • SFDD-417	MAYA-42 • SFDD-442	MAYA-67 • SFDD-467	
MAYA-19 • SFDD-418	MAYA-43 • SFDD-443	MAYA-68 • SFDD-468	
MAYA-20 • SFDD-419	MAYA-44 • SFDD-444	MAYA-69 • SFDD-469	
MAYA-21 • SFDD-420	MAYA-45 • SFDD-445	MAYA-70 • SFDD-470	
MAYA-22 • SFDD-421	MAYA-46 • SFDD-446	MAYA-71 • SFDD-471	
MAYA-23 • SFDD-422	MAYA-47 • SFDD-447	MAYA-72 • SFDD-472	
MAYA-24 • SFDD-423	MAYA-48 • SFDD-448	MAYA-73 • SFDD-473	
MAYA-25 • SFDD-424	MAYA-49 • SFDD-449	MAYA-74 • SFDD-474	

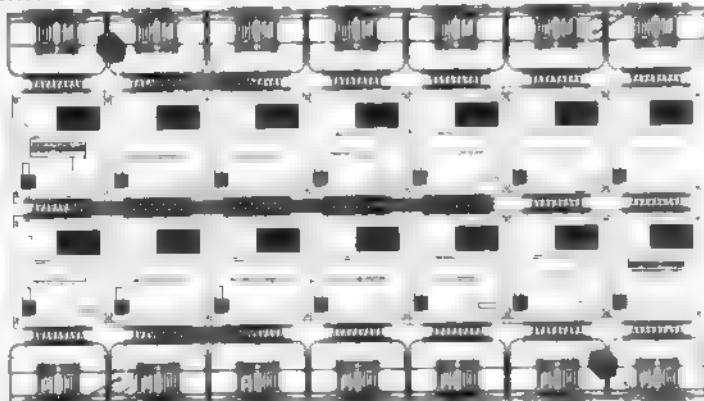
CLASS SHIP, "LOST IN THE LINE OF DUTY," "PROPOSED."

## Tractor Beam Specifications

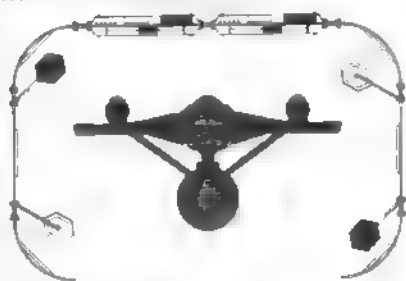
Primary Tractor Beam Load Calculator



SIDE PROFILE  
WITH HEAVY CRUISER



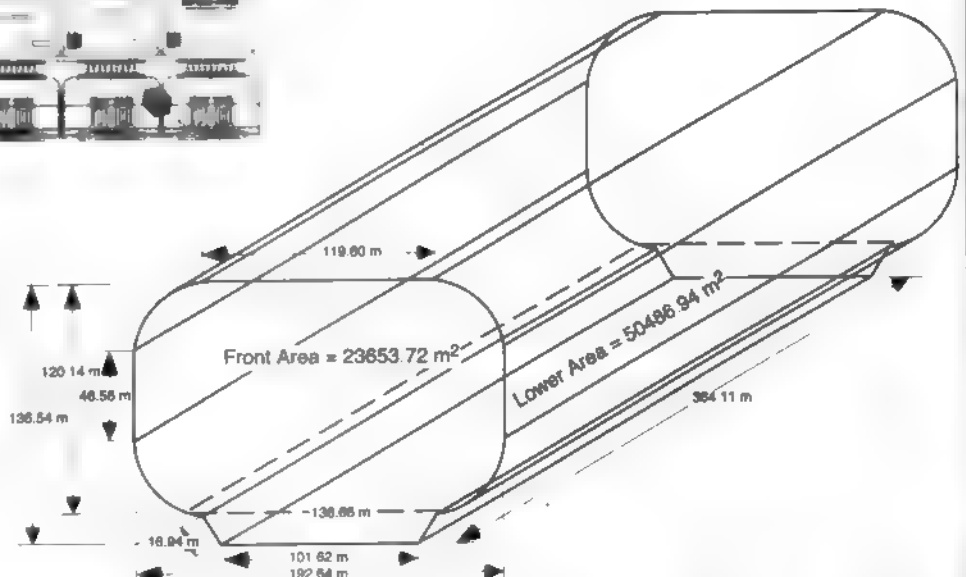
TOP PROFILE  
WITH HEAVY CRUISER



FRONT PROFILE  
WITH HEAVY CRUISER

## WORK AREA DIMENSIONS

Max. Length = 384.11 m  
Max. Width = 192.64 m  
Max. Height = 136.54 m  
Front Area = 23653.77 m<sup>2</sup>  
Lower Area = 50486.94 m<sup>2</sup>  
Volume = 8612461.37 m<sup>3</sup>



DRY DOCK PROFILES  
WITH HEAVY CRUISER

DRY DOCK  
AREA USAGE

# LIQUID CONTAINER



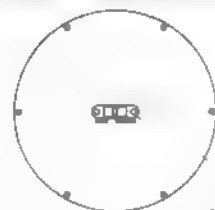
## Statistics

**Classification:** Container  
**Category:** Liquid Container  
**Type:** Class 7  
**Model:** MK-1  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons)**  
 Standard: 112,938mt  
 Full Load: 338,814mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 0  
**Officers:** 0  
**Crew (Ensign Grade):** 0  
**Passengers:** 0  
**Emergency condition:** 0  
**Medical Facilities:**  
 Doctors: 0  
 Nurses: 0  
 Operating Rooms: 0  
 Beds: 0  
**Transporters Total:** 4  
 1 Person: 0  
 3 Person: 0  
 6 Person: 0  
 12 Person: 0  
 22 Person: 0  
 Small Cargo: 0  
 Medium Cargo: 4  
 Large Cargo: 0  
 Super Cargo: 0  
 Mega Cargo: 0  
 Tractor Beams: 0  
 Tow Capacity: N/A  
 Max. Range: N/A  
**Cargo Specification:**  
 Standard Cargo Units: N/A  
 Cargo Capacity: 374,173.8 m<sup>3</sup>  
 Deck Height: 2.4 / 14.4m  
**Shuttlecraft Specifications:**  
 Shuttlecraft Bays Total: 0  
 Small Bay: 0  
 Medium Bay: 0  
 Large Bay: 0  
 Super Bay: 0  
 Shuttlecraft Standard: 0  
 Work Boat: 0  
 Travel Pods: 0  
 Light Shuttle: 0  
 Aquatic Shuttle: 0  
 Shuttle Standard: 0  
 Heavy Shuttle: 0  
 Fighter: 0  
 Heavy Fighter: 0  
 Lifeboats: 4  
 Lifeboat (8 person): 4  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 0  
 Lifeboat (30 person): 0  
 Docking Rings: 2  
**Sensor Input Values:**  
 Planetary Survey: 0.020  
 Short Range: 0.020  
 Long Range: 0.020  
 Navigation: 0.020  
 Special: 0.020  
**Computers:** 1  
 Type: Daystrom Duotronic II  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refresh Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m

## General Information

The Liquids Container is used for the transportation of large amounts of liquid materials. The container is equipped with 162 separate baffled compartments, which allows the transportation of different liquids in the same container.

For additional detail refer to Datasheet MVC-1



FRONT PROFILE

Turbo Shaft



REAR PROFILE

Forward  
Attachment Plate

Rear  
Attachment Plate

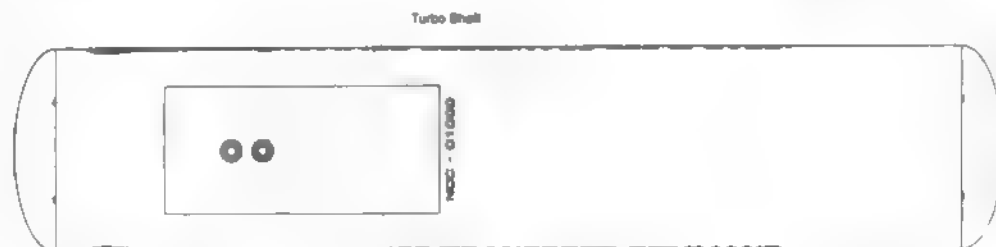
Reaction-Control  
Thrustors



PORT PROFILE

Forward

Reaction-Control  
Thrustors



TOP PROFILE

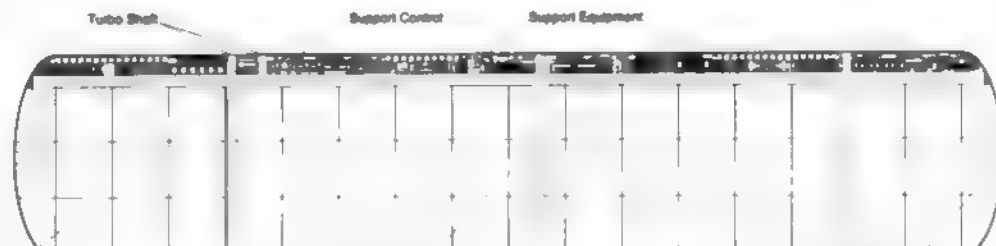
Turbo Shaft

Dorsal  
Attachment Plate



BOTTOM PROFILE

Reaction-Control  
Thrustors



CROSS SECTION

Turbo Shaft

Support Control

Support Equipment

Baffle Plates

Turbo Shaft

METERS  
 0 10 20 30 40 50  
 SCALE 1:1800

Liquid Cell

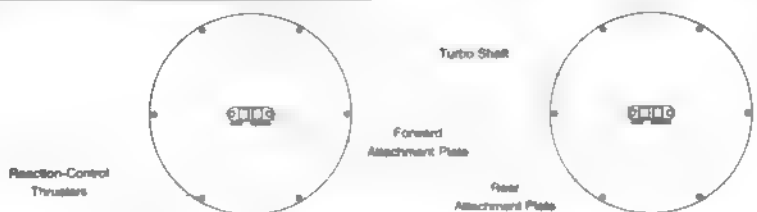


# DRY BULK CONTAINER

## General Information

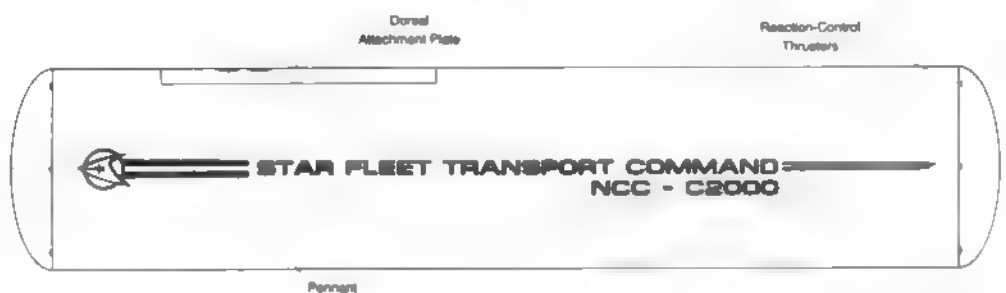
The Dry Bulk Container is used for the transportation of large amounts of material such as ore and grain. The container is equipped with 54 separate compartments, this allows the transportation of different materials in the same container.

For additional detail refer to Datasheet MVC-1

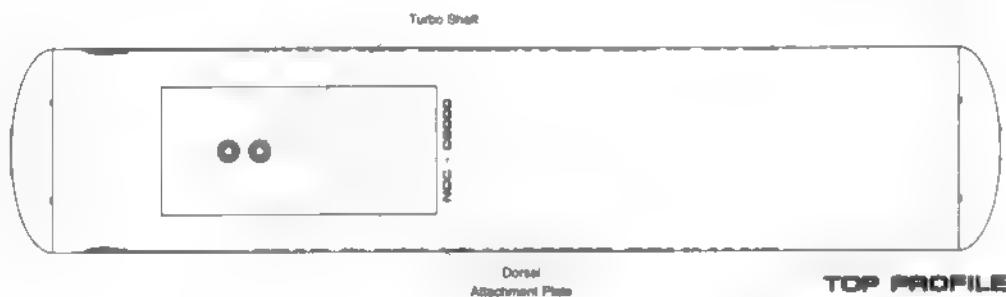


FRONT PROFILE

REAR PROFILE



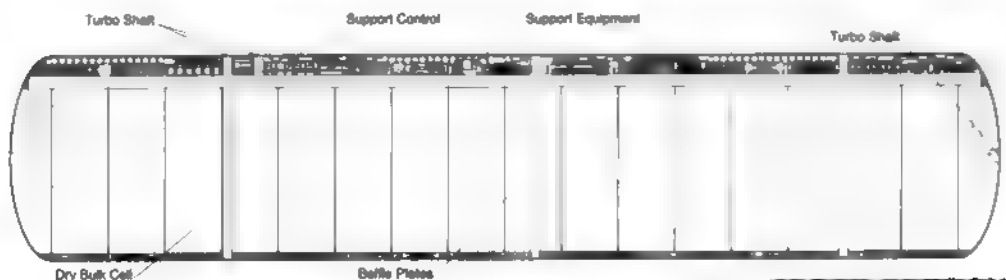
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION

## Statistics

**Classification:** Container  
**Category:** Dry Bulk Container  
**Type:** Class 7  
**Model:** MK-II  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons)**  
 Standard: 111,914mt  
 Full Load: 332,742mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 0  
**Officers:** 0  
**Crew (Ensign Grade):** 0  
**Passengers:** 0  
**Emergency condition:** 0  
**Medical Facilities:**  
 Doctors: 0  
 Nurses: 0  
**Operating Rooms:** 0  
**Beds:** 0  
**Transporters Total:** 4  
 1 Person: 0  
 2 Person: 0  
 3 Person: 0  
 12 Person: 0  
 22 Person: 0  
**Small Cargo:** 0  
**Medium Cargo:** 4  
**Large Cargo:** 0  
**Super Cargo:** 0  
**Mega Cargo:** 0  
**Tractor Beams:** 0  
**Tow Capacity:** N/A  
**Max. Range:** N/A  
**Cargo Specification:**  
**Standard Cargo Units:** N/A  
**Cargo Capacity:** 374,185.2m<sup>3</sup>  
**Deck Height:** 2.4 / 43.2m  
**Shuttlecraft Specifications:**  
**Shuttlecraft Bays Total:** 0  
**Small Bay:** 0  
**Medium Bay:** 0  
**Large Bay:** 0  
**Super Bay:** 0  
**Shuttlecraft Standard:** 0  
**Work Bays:** 0  
**Travel Pods:** 0  
**Light Shuttle:** 0  
**Aquatic Shuttle:** 0  
**Shuttle Standard:** 0  
**Heavy Shuttle:** 0  
**Fighter:** 0  
**Heavy Fighter:** 0  
**Lifboats:** 4  
**Turbolift (8 person):** 4  
**Lifboat (10 person):** 0  
**Lifboat (20 person):** 0  
**Lifboat (30 person):** 0  
**Docking Rings:** 2  
**Sensor Input Values:**  
**Planetary Survey:** 0.020  
**Short Range:** 0.020  
**Long Range:** 0.020  
**Navigation:** 0.020  
**Special:** 0.020  
**Computers:** 1  
**Type:** Daystrom Duotronic 1c  
**Shield Rating:**  
**Holdoff Power:** 3.24E8  
**Refresh Rate:** 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m

METERS  
 0 10 20 30 40 50  
 SCALE: 1:1800

DELIVERANCE CLASS

FEDERATION CONTAINER



# REEFERS CONTAINER



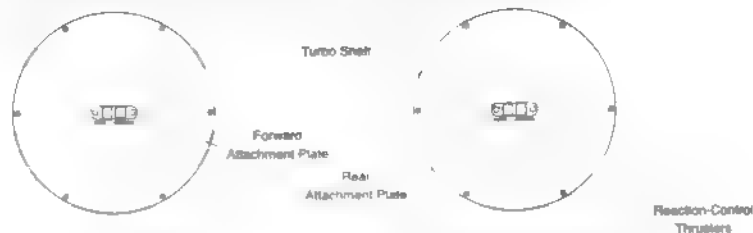
## Statistics

**Classification:** Container  
**Category:** Reefers Container  
**Type:** Class 7  
**Model:** MK-III  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons)**  
 Standard: 135,526mt  
 Full Load: 338,815mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 0  
**Officers:** 0  
**Crew (Ensign Grade):** 0  
**Passengers:** 0  
**Emergency condition:** 0  
**Medical Personnel:**  
 Doctors: 0  
 Nurses: 0  
**Operating Rooms:** 0  
**Medical:** 0  
**Transporters Total:** 4  
 1 Person: 0  
 2 Person: 0  
 6 Person: 0  
 12 Person: 0  
 22 Person: 0  
 Small Cargo: 0  
 Medium Cargo: 4  
 Large Cargo: 0  
 Super Cargo: 0  
 Mega Cargo: 0  
**Tractor Beams:** 0  
**Tow Capacity:** N/A  
**Max Range:** N/A  
**Cargo Specification:**  
 Standard Cargo Units: N/A  
**Cargo Capacity:** 373,182.1 m<sup>3</sup>  
**Deck Height:** 2.4 m  
**Shuttlecraft Specifications:**  
 Shuttlecraft Bays Total: 0  
 Small Bay: 0  
 Medium Bay: 0  
 Large Bay: 0  
 Super Bay: 0  
**Shuttlecraft Standard:** 0  
 Work Bees: 0  
 Travel Pods: 0  
 Light Shuttle: 0  
 Aquatic Shuttle: 0  
 Shuttle Standard: 0  
 Heavy Shuttle: 0  
 Fighter: 0  
 Heavy Fighter: 0  
**Lifeboats:** 4  
 Turbolift (8 person): 4  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 0  
 Lifeboat (30 person): 0  
**Docking Rings:** 2  
**Sensor Input Values:**  
 Planetary Survey: 0.020  
 Short Range: 0.020  
 Long Range: 0.020  
 Navigation: 0.020  
 Special: 0.020  
**Computers:** 1  
 Type: Daystrom Duotronic III  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refresh Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m

## General Information

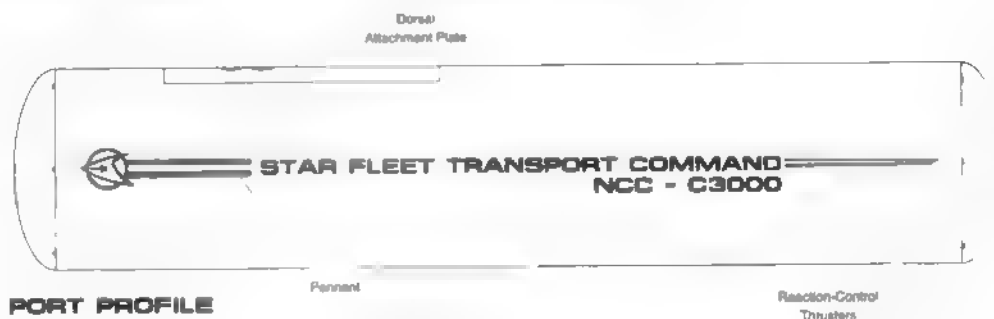
The Reefers Container is used for the transportation of large amounts of materials that require specific climate control for transportation. The container is equipped with 1500 separate climate controlled compartments.

For additional detail refer to Datasheet MVC-1

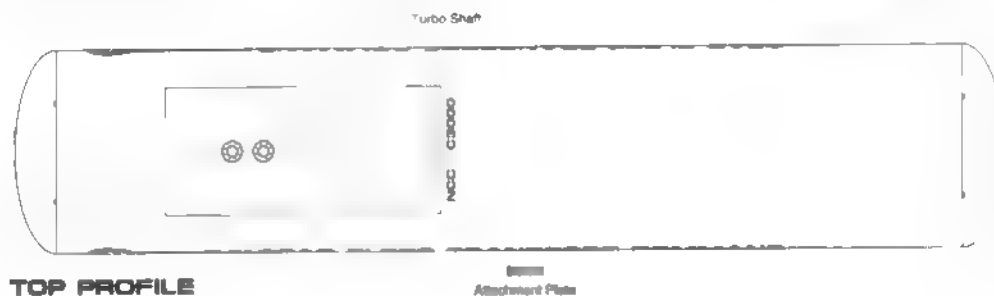


FRONT PROFILE

REAR PROFILE



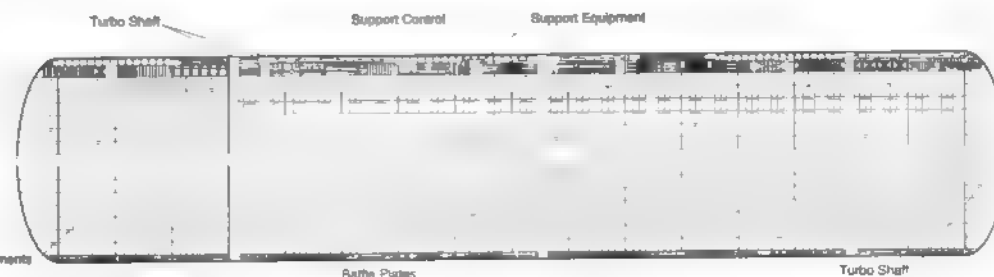
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION

METERS  
 0 10 20 30 40 50  
 SCALE 1:1800



# STARLINER CONTAINER

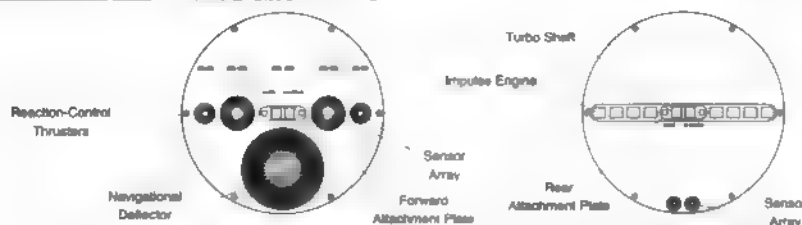
## General Information

The Starliner Container is used for the transportation of people. The container is equipped with extensive facilities for both luxury and standard passage. The container is also equipped with a six bay hangar deck used for passenger transportation.

For additional detail refer to Datasheet MVC-1

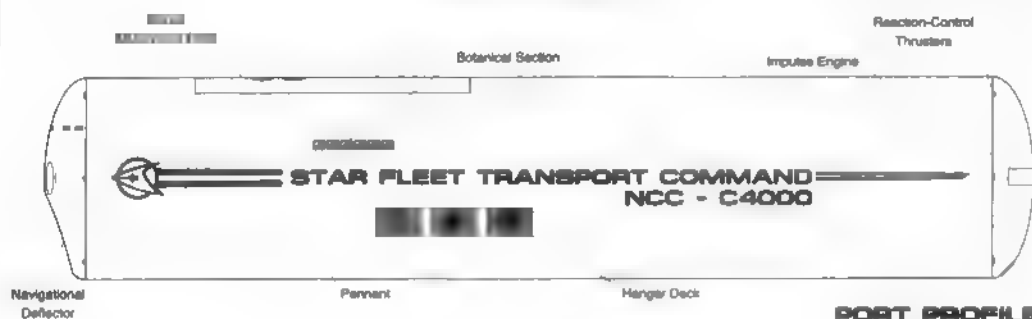
## Statistics

**Classification:** Container  
**Category:** Starliner Container  
**Type:** Class 7  
**Model:** MK-IV  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons)**  
 Standard: 201,036mt  
 Full Load: 301,554mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 165  
**Officers:** 15  
**Crew (Ensign Grade):** 150  
**Passengers:** 500  
**Emergency condition:** +200  
**Medical Facilities:**  
 Doctors: 3  
 Nurses: 15  
 Operating Rooms: 3  
 Beds: 20  
**Transporters Total:** 10  
 1 Person: 0  
 2 Person: 0  
 6 Person: 4  
 12 Person: 0  
 22 Person: 2  
 Small Cargo: 0  
 Medium Cargo: 4  
 Large Cargo: 0  
 Super Cargo: 0  
 Mega Cargo: 0  
 Tractor Beams: 0  
 Tow Capacity: N/A  
 Max. Range: N/A  
**Cargo Specifications:**  
 Standard Cargo Units: 30  
 Cargo Capacity: 1,500 mt  
 Deck Height: 2.4 m  
**Shuttlecraft Specifications:**  
 Shuttlecraft Bays Total: 1  
 Small Bay: 1  
 Medium Bay: 0  
 Large Bay: 0  
 Super Bay: 0  
 Shuttlecraft Standard: 5  
 Work Bess: 0  
 Travel Pods: 0  
 Light Shuttle: 0  
 Aquatic Shuttle: 0  
 Shuttle Standard: 5  
 Heavy Shuttle: 0  
 Fighter: 0  
 Heavy Fighter: 0  
 Lifeboats: 35  
 TurboLift (8 person): 30  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 5  
 Lifeboat (30 person): 0  
 Docking Rings: 2  
**Sensor Input Values:**  
 Planetary Survey: 0.020  
 Short Range: 0.020  
 Long Range: 0.020  
 Navigation: 0.020  
 Special: 0.020  
**Computers:** 1  
 Type: Daystrom Duotronic 1c  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refresh Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m

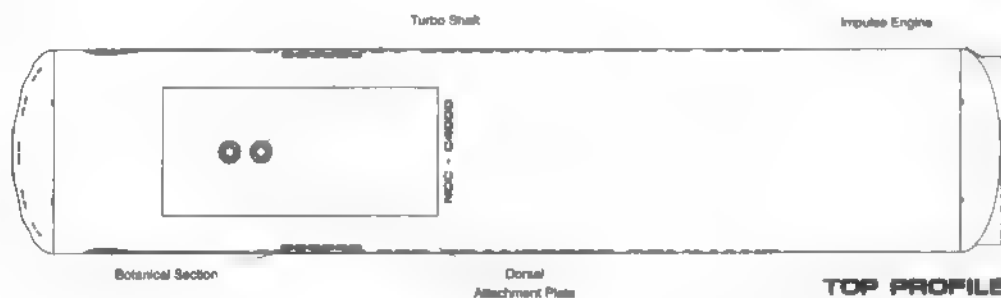


FRONT PROFILE

REAR PROFILE



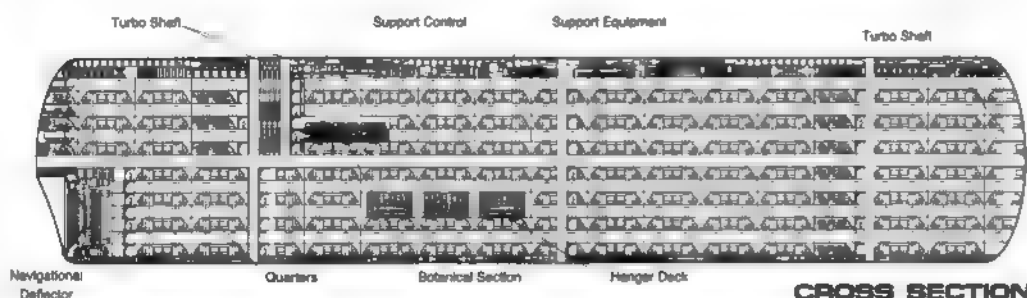
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION

METERS  
 0 10 20 30 40 50  
 SCALE 1:1600

# PRODUCTS CONTAINER



## Statistics

**Classification:** Container  
**Category:** Products Container  
**Type:** Class 7  
**Model:** MK V

### Dimensions:

**Overall Dimensions (Meters):**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons):**  
 Standard: 138,419mt  
 Full Load: 329,119mt  
**Duration (Years):**  
 Minimum: 1.5  
 Maximum: 100

### Std. Container Complement:

**Officers:** 0  
**Crew (Ensign Grade):** 0  
**Passengers:** 0  
**Emergency condition:** 0  
**Medical Facilities:**  
 Doctors: 0  
 Nurses: 0  
**Operating Rooms:** 0

### Transporters Total: 4

1 Person: 0  
 2 Person: 0  
 6 Person: 0  
 12 Person: 0  
 22 Person: 0  
 Small Cargo: 0  
 Medium Cargo: 4  
 Large Cargo: 0  
 Super Cargo: 0  
 Mega Cargo: 0

### Tractor Beams: 0

**Tow Capacity:** N/A  
**Max Range:** N/A

### Cargo Specifications:

**Standard Cargo Units:** N/A

**Cargo Capacity:** 373,529.8 m<sup>3</sup>  
**Deck Height:** 2.4 m

### Shuttlecraft Specifications:

**Shuttlecraft Bays Total:** 0  
 Small Bay: 0  
 Medium Bay: 0  
 Large Bay: 0  
 Super Bay: 0

### Shuttlecraft Complement:

**Shuttlecraft:** 0  
 Travel Pods: 0  
 Light Shuttle: 0  
 Aquatic Shuttle: 0  
 Shuttle Standard: 0  
 Heavy Shuttle: 0  
 Fighter: 0  
 Heavy Fighter: 0

**Lifeboats:** 0  
 Turbolift (8 person): 4  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 0  
 Lifeboat (30 person): 0

### Docking Rings: 2

### Sensor Input Values:

**Planetary Survey:** 0.020  
**Short Range:** 0.020  
**Long Range:** 0.020  
**Navigation:** 0.020  
**Special:** 0.020

### Computers: 1

**Type:** Daystrom Duotronic 1c

### Shield Rating:

**Holdoff Power:** 3.24E8  
**Refresh Rate:** 9.21E7

**Length:** 282.01m  
**Width:** 57.6m  
**Height:** 57.6m

## General Information

The Products Container is used for the transportation of large amounts of general materials. The container is equipped with 1500 separate compartments which allows the transportation of individual products.

For additional detail refer to Datasheet MVC-1

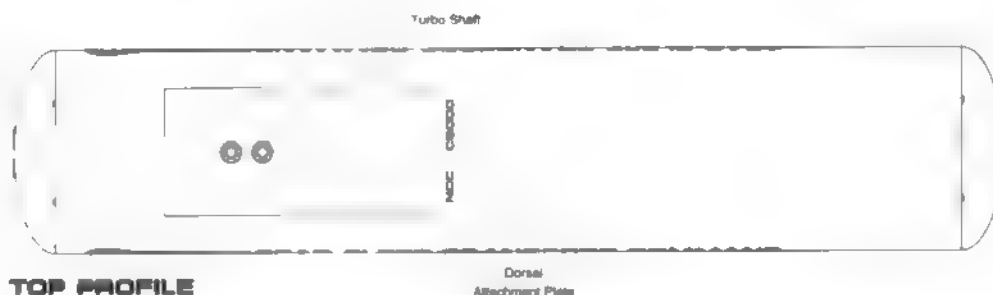


FRONT PROFILE

REAR PROFILE



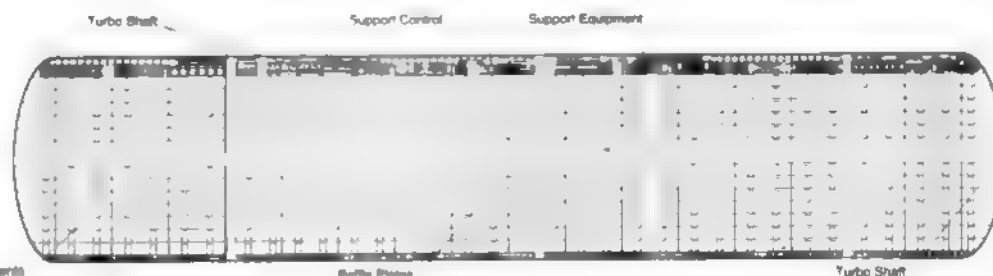
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION

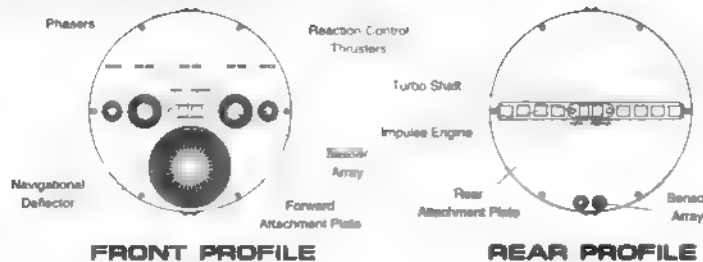
METERS  
 0 10 20 30 40 50  
 SCALE 1:1800



# ASSAULT CONTAINER

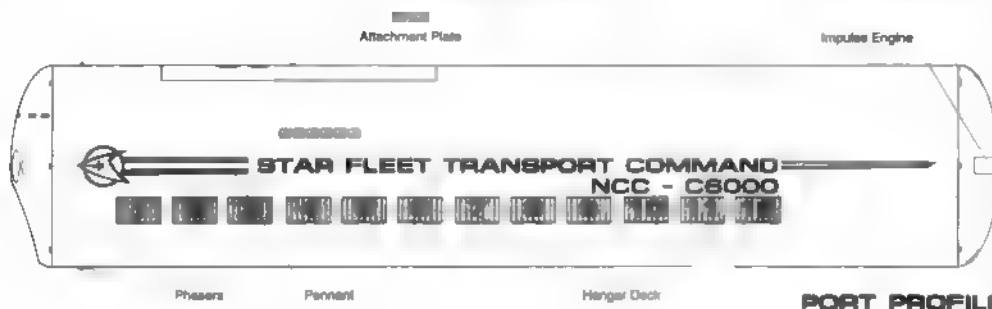
## General Information

The Assault Transport Container is used for the transportation and support of Federation Peace Keeping Forces (Starfleet Marines). The container is equipped with facilities and supplies to support the troops. The container is also equipped with a twenty four bay hangar deck used for fighters and assault craft. For additional detail refer to Datasheet MVC-2

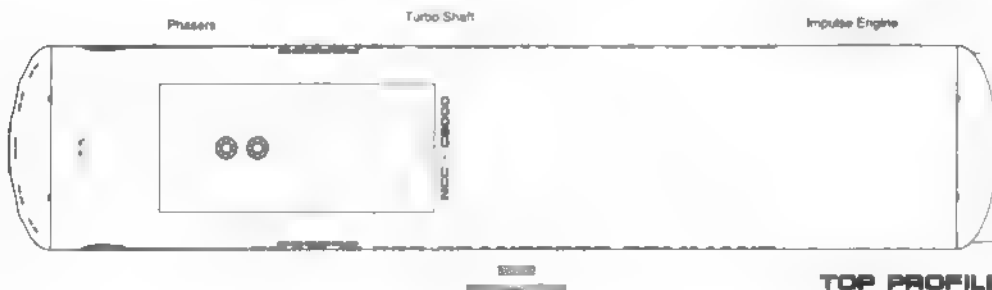


FRONT PROFILE

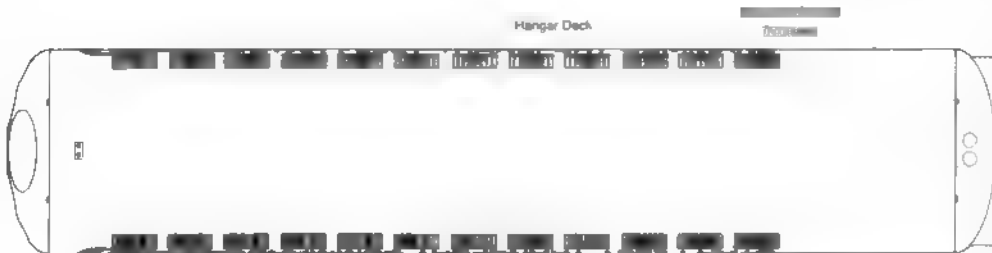
REAR PROFILE



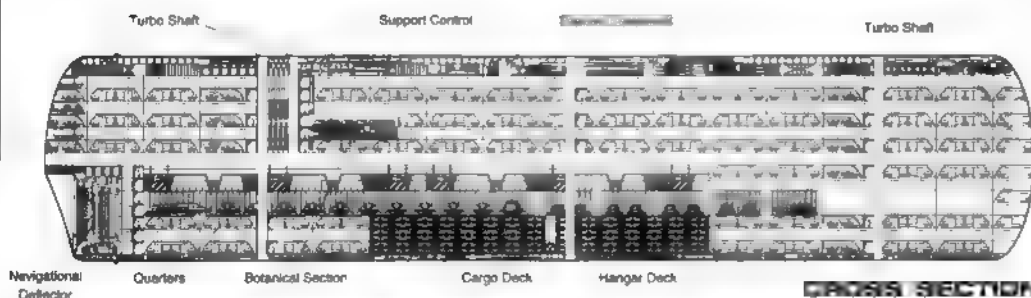
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION

## Statistics

**Classification:** Container  
**Category:** Assault Transport Container  
**Type:** Class 7  
**Model:** MK-VI

### Dimensions

#### Overall Dimensions (Meters)

Length: 235.01m  
Width: 48.00m  
Height: 48.00m

#### Displacement (Metric Tons)

Standard: 1225.389mt  
Full Load: 358.125mt

#### Duration (Years)

Maximum: 20 Years

#### Std. Container Complement: 460

Officers: 60  
Crew (Ensign Grade): 400  
Passengers: 30  
Emergency condition: +200

#### Medical Facilities:

Doctors: 7  
Nurses: 25  
Operating Rooms: 8  
Beds: 30

#### Transporters Total: 21

1 Person: 0  
2 Person: 0  
6 Person: 8  
12 Person: 4  
22 Person: 5  
Small Cargo: 0  
Medium Cargo: 4  
Large Cargo: 0  
Super Cargo: 0  
Mega Cargo: 0  
Tractor Beams: 0

#### Tow Capacity: N/A

#### Max. Range: N/A

#### Cargo Specification:

Standard Cargo Units: 150  
Cargo Capacity: 7,500 mt  
Deck Height: 2.4 m

#### Shuttlecraft Specifications:

##### Shuttlecraft Bays Total: 1

Small Bay: 0  
Medium Bay: 0  
Large Bay: 1  
Super Bay: 0

#### Shuttlecraft Standard: 22

##### Work Bees: 0

##### Light Shuttle: 0

##### Aquatic Shuttle: 2

##### Shuttle Standard: 5

##### Assault Shuttle: 15

##### Fighter: 15

##### Heavy Fighter: 15

##### Lifeboats: 26

##### Turbolift (8 person): 20

##### Lifeboat (10 person): 0

##### Lifeboat (20 person): 6

##### Lifeboat (30 person): 0

##### Docking Rings: 2

#### Sensor Input Values:

##### Planetary Survey: 0.020

##### Short Range: 0.020

##### Long Range: 0.020

##### Navigation: 0.020

##### Special: 0.020

#### Computers: 1

#### Type: Daystrom Duotronic II

#### Shield Rating:

##### Shield Rating: 234E

##### Refresh Rate: 9.21E7

#### Shield Dimensions (Meters)

##### Length: 282.01m

##### Width: 57.6m

##### Height: 57.6m

METERS  
0 10 20 30 40 50  
SCALE 1:1800

DELIVERANCE CLASS

FEDERATION CONTAINER

# ENGINE REPAIR CONTAINER

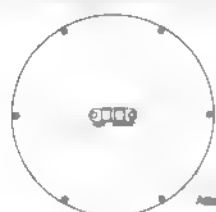


## Statistics

**Classification:** Container  
**Category:** Engine Repair Container  
**Type:** Class 7  
**Model:** MK VII  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons)**  
 Standard: 101,423mt  
 Full Load: 342,812mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 100  
 Officers: 20  
 Crew (Ensign Grade): 80  
 Passengers: 30  
 Emergency condition: +80  
**Medical Facilities:**  
 Doctors: 2  
 Nurses: 4  
 Operating Rooms: 2  
 Beds: 5  
**Transporters Total:** 6  
 1 Person: 0  
 2 Person: 0  
 6 Person: 2  
 12 Person: 0  
 23 Person: 0  
 Small Cargo: 0  
 Medium Cargo: 4  
 Large Cargo: 0  
 Super Cargo: 0  
 Mega Cargo: 0  
 Tractor Beams: 0  
**Tow Capacity:**  $3.55 \times 10^5$  ml  
**Max Range:**  $8.21 \times 10^3$  km  
**Cargo Specification:**  
 Standard Cargo Units: N/A  
 Cargo Capacity: 350,188.5 m<sup>3</sup>  
 Deck Height: 2.4 m  
**Shuttlecraft Specifications:**  
 Shuttlecraft Bays Total: 1  
 Small Bay: 0  
 Medium Bay: 0  
 Large Bay: 0  
 Super Bay: 1  
**Shuttlecraft Standard:** 27  
 Work Bee: 20  
 Travel Pods: 5  
 Light Shuttle: 0  
 Aquatic Shuttle: 0  
 Shuttle Standard: 2  
 Heavy Shuttle: 0  
 Fighter: 0  
 Heavy Fighter: 0  
 Lifeboats: 8  
 Turbolift (8 person): 4  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 4  
 Lifeboat (30 person): 0  
 Docking Rings: 2  
**Sensor Input Values:**  
 Planetary Survey: 0.020  
 Short Range: 0.020  
 Long Range: 0.020  
 Navigation: 0.020  
 Special: 0.020  
**Computers:** 1  
 Type: Daystrom Duotronic Iq  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refresh Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m

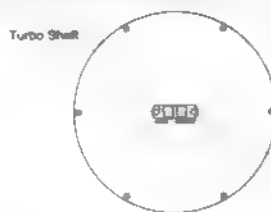
## General Information

The Engine Repair Container is used for the transportation and installation of warp nacelles. The container can carry up to three nacelles with facilities and shops for repair work. Located on the bottom of the container are 12 large shutter doors that allow the engine from a distressed ship to be put inside without disassembly for easier repair work. For additional detail refer to Datasheet MVC-2



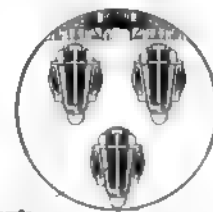
Forward  
Attachment Plate

FRONT PROFILE



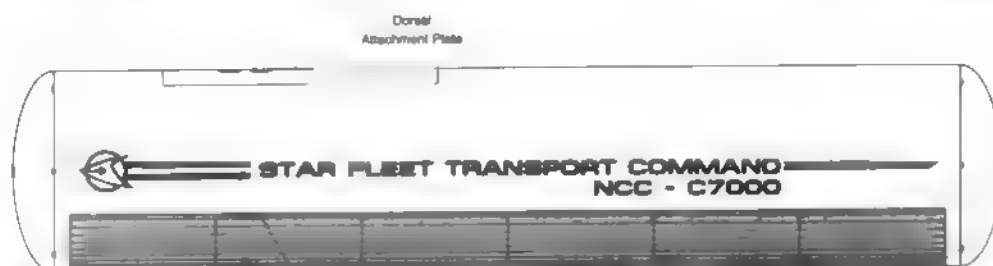
Rear  
Attachment Plate

REAR PROFILE



Nacelle  
Shutter Doors

CROSS SECTION

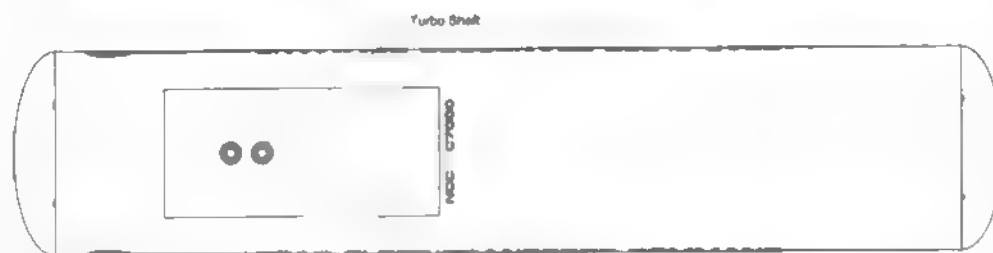


PORT PROFILE

Perimeter

Shutter Doors

Reaction-Control  
Thrusters



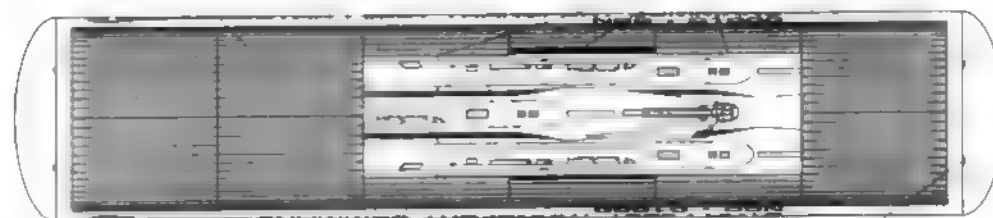
TOP PROFILE

Turbo Shaft

Dorsal  
Attachment Plate

Shutter Doors

Shutter Doors (Open)



BOTTOM PROFILE

Reaction-Control  
Thrusters



CROSS SECTION

Nacelle

Shutter Doors

Turbo Shaft

METERS  
 0 10 20 30 40 50  
 SCALE 1:1800



# LARGE PRODUCT CONTAINER

## General Information

The Large Product Container is used for the transportation of large items that can not be towed by a tractor beam. This container is equipped with a large door located at the rear to allow items to be placed inside.

For additional detail refer to Datasheet MVC-2

## Statistics

**Classification:** Container  
**Category:** Large Product Container  
**Type:** Class 7  
**Model:** MK-VIII

**Overall Dimensions (Meters)**  
**Length:** 235.05m  
**Width:** 49.01m  
**Height:** 49.22m  
**Displacement (Metric Tons)**  
**Standard:** 100,112mt  
**Full Load:** 351,521mt  
**Duration (Years)**  
**Standard:** 15 Years

### Std. Container Complement: 0

**Officers:** 0  
**Crew (Ensign Grade):** 0  
**Passengers:** 0  
**Emergency condition:** 0

### Medical Facilities:

**Doctors:** 0  
**Nurses:** 0  
**Operating Rooms:** 0  
**Beds:** 0

### Transporters Total: 2

**1 Person:** 0  
**2 Person:** 0  
**6 Person:** 1  
**12 Person:** 0  
**22 Person:** 0  
**Small Cargo:** 0  
**Medium Cargo:** 1  
**Large Cargo:** 0  
**Super Cargo:** 0  
**Mega Cargo:** 0  
**Tractor Beams:** 1

**Tow Capacity:**  $3.37 \times 10^6$  mt

**Max. Tow Capacity:**  $9.10 \times 10^3$  km

### Cargo Specification

**Standard Cargo Units:** N/A

**Cargo Capacity:** 374,173.8 m<sup>3</sup>

**Deck Height:** 47.01m

### Shuttlecraft Specifications:

**Shuttlecraft Bays Total:** 0

**Small Bay:** 0  
**Medium Bay:** 0  
**Large Bay:** 0  
**Super Bay:** 0

### Shuttlecraft Standard: 0

**Work Bees:** 0  
**Travel Pods:** 0  
**Light Shuttle:** 0  
**Aquatic Shuttle:** 0  
**Shuttle Standard:** 0  
**Heavy Shuttle:** 0  
**Fighter:** 0  
**Heavy Fighter:** 0

### Lifeboats: 2

**Turbolift (8 person):** 2  
**Lifeboat (10 person):** 0  
**Lifeboat (20 person):** 0  
**Lifeboat (30 person):** 0

### Docking Rings: 2

### Sensor Input Values:

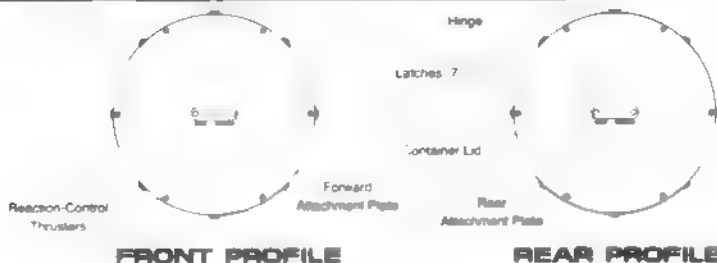
**Planetary Survey:** 0 020  
**Short Range:** 0 020  
**Long Range:** 0 020  
**Navigation:** 0 020  
**Special:** 0 020

### Computers: 1

**Type:** Daystrom Duotronic II

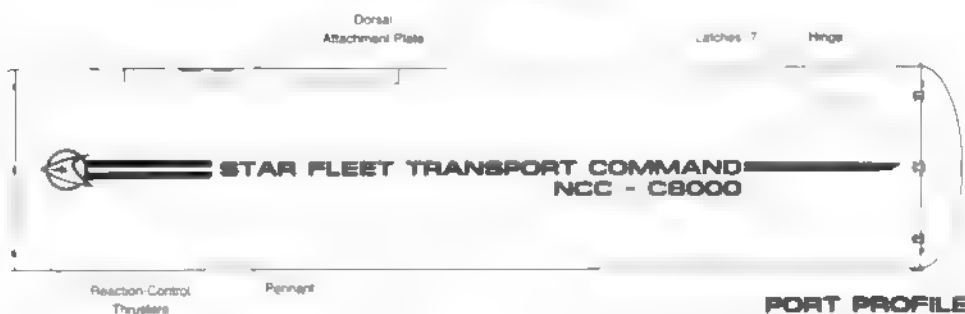
### Shield Rating:

**Holdoff Power:** 3.24E8  
**Refresh Rate:** 9.21E7  
**Shield Dimensions (Meters)**  
**Length:** 282.01m  
**Width:** 57.6m  
**Height:** 57.6m

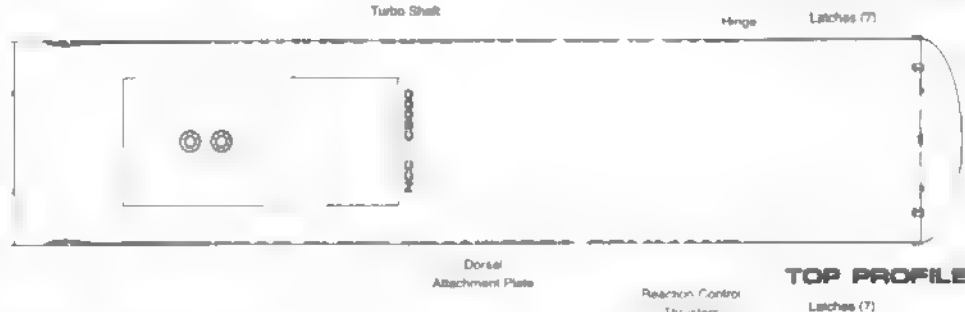


FRONT PROFILE

REAR PROFILE



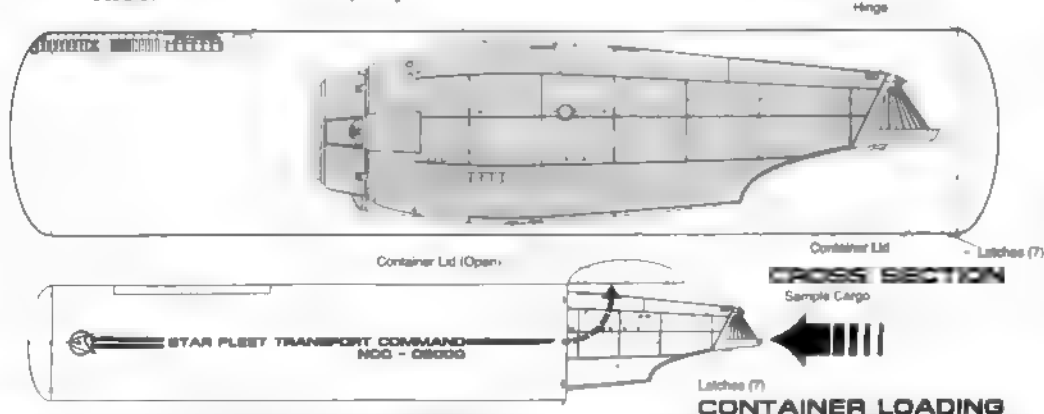
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION

CONTAINER LOADING

METERS  
0 10 20 30 40 50  
SCALE 1:1800

DELIVERANCE CLASS

FEDERATION CONTAINER

# COLONIAL TRANSPORT



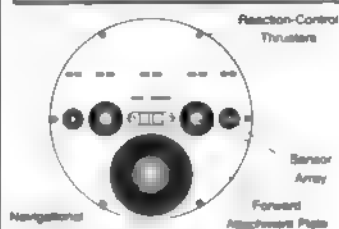
## Statistics

**Classification:** Container  
**Category:** Colonial Transport Container  
**Type:** Class 7  
**Model:** MK IX  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.06m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons)**  
 Standard: 223,411mt  
 Full Load: 356,144mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 115  
**Officers:** 15  
**Crew (Ensign Grade):** 100  
**Passengers:** 400  
**Emergency condition:** +300  
**Medical Facilities:**  
 Doctors: 5  
 Nurses: 9  
 Operating Rooms: 5  
 Beds: 15  
**Transporters Total:** 10  
 1 Person: 0  
 2 Person: 0  
 4 Person: 4  
 12 Person: 0  
 22 Person: 2  
 Small Cargo: 0  
 Medium Cargo: 4  
 Large Cargo: 0  
 Super Cargo: 0  
 Mega Cargo: 0  
**TraCTOR Seams:** 0  
**Tow Capacity:** N/A  
**Max. Range:** N/A  
**Cargo Specification:**  
 Standard Cargo Units: 450  
 Cargo Capacity: 22,500 mt  
 Deck Height: 2.4 m  
**Shuttlecraft Specifications:**  
 Shuttlecraft Bays Total: 1  
 Small Bay: 0  
 Medium Bay: 1  
 Large Bay: 0  
 Super Bay: 0  
 Shuttlecraft Standard: 22  
 Work Bays: 0  
 Travel Pods: 0  
 Light Shuttle: 2  
 Aquatic Shuttle: 0  
 Shuttle Standard: 6  
 Heavy Shuttle: 0  
 Cargo Shuttle: 12  
 Heavy Fighter: 0  
**Lifboats:** 20  
 Turbolift (8 person): 10  
 Lifboat (10 person): 0  
 Lifboat (20 person): 0  
 Lifboat (30 person): 10  
**Decking Rings:** 2  
**Sensor Input Values:**  
 Planetary Survey: 0.020  
 Short Range: 0.020  
 Long Range: 0.020  
 Navigation: 0.020  
 Special: 0.020  
**Computers:** 1  
**Type:** Daystrom Duotronic Ig  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refresh Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.8m  
 Height: 57.8m

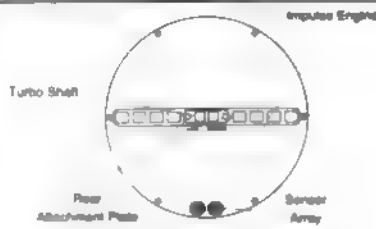
## General Information

The Colonial Transport Container is used for the transportation and support of colonization efforts. The container is equipped with facilities and supplies to support colonization. The container is also equipped with a twelve bay hangar deck used for ground support.

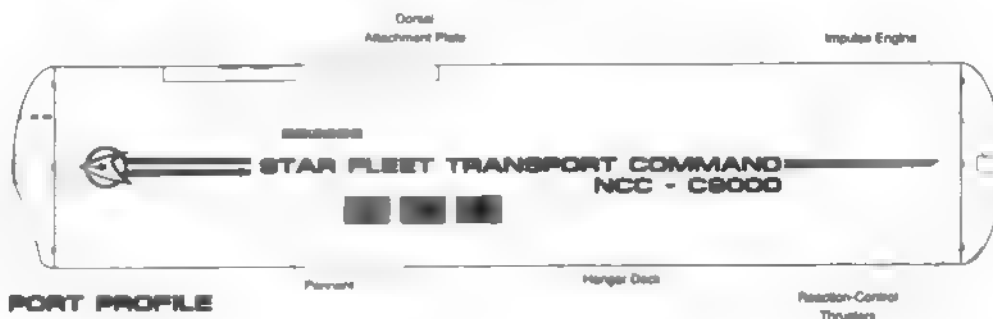
For additional detail refer to Datasheet MVC-2



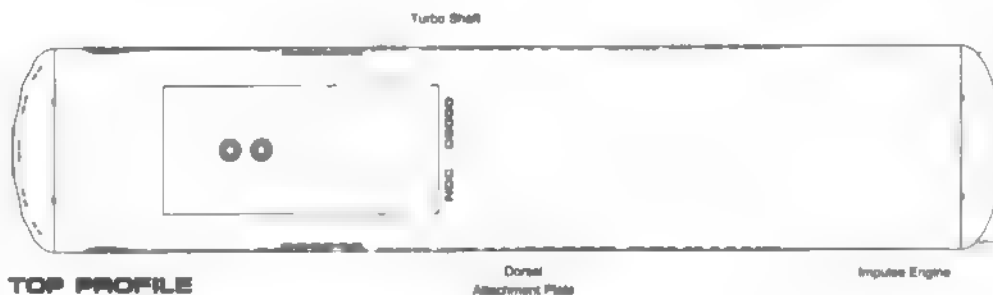
FRONT PROFILE



REAR PROFILE



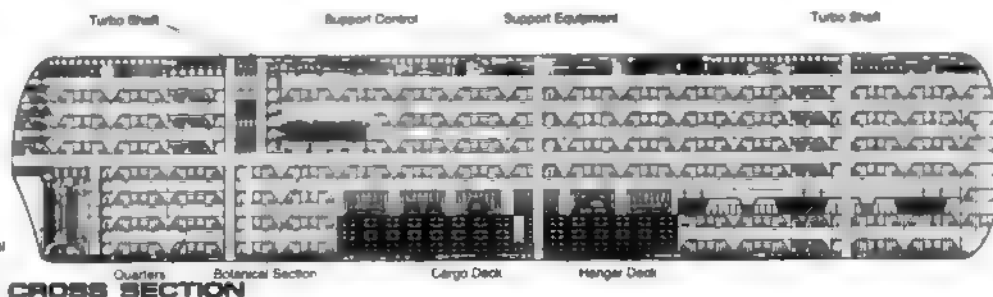
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION

METERS  
 0 10 20 30 40 50  
 SCALE 1:1800

Navigational  
 Deflector





# FACTORY CONTAINER

## General Information

The Factory Container is designed to be transported to various locations so that materials can be manufactured on the spot. The container is equipped with extensive replicators and shops for processing and manufacturing. The container is also equipped with a six bay hangar deck used for transportation of materials. For additional detail refer to Datasheet MVC-2

## Statistics

**Classification:** Container  
**Category:** Factory Container  
**Type:** Class 7  
**Model:** MK-X  
**Dimensions:**

**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons)**  
 Standard: 243,819mt  
 Full Load: 368,149mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 330  
 Officers: 30  
 Crew (Ensign Grade): 300  
 Passengers: 30  
 Emergency condition: +200

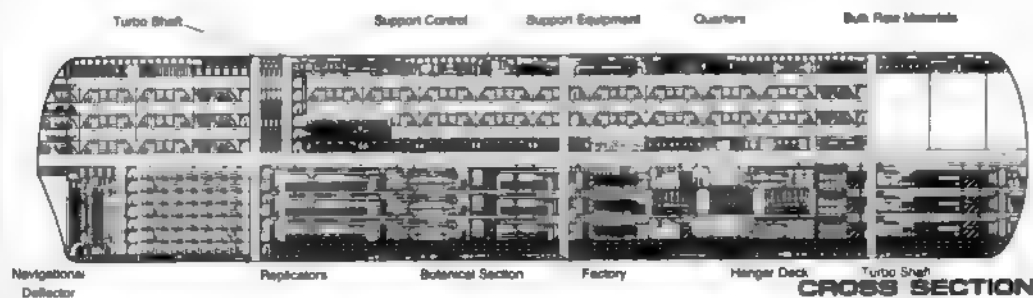
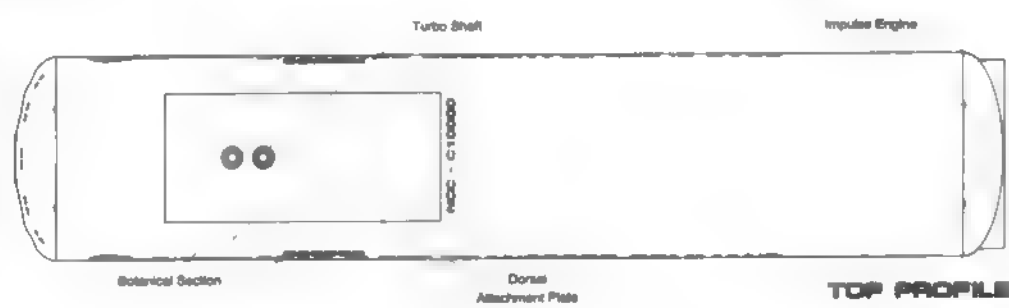
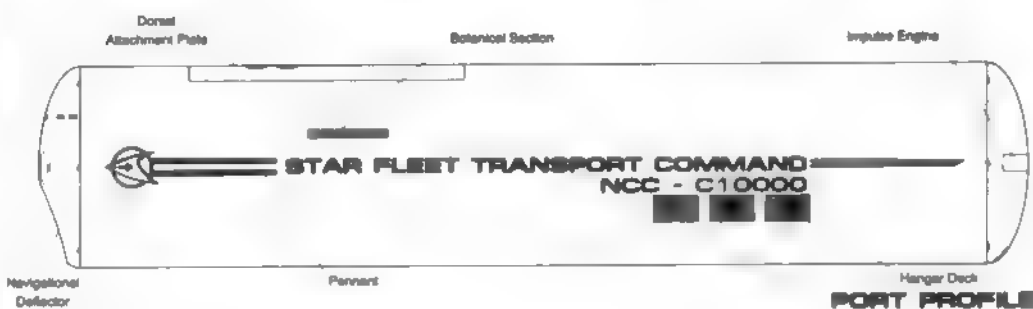
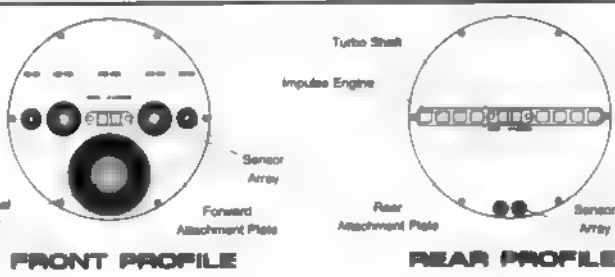
**Medical Facilities:**  
 Doctors: 5  
 Nurses: 12  
 Operating Rooms: 4  
 Beds: 12  
**Transporters Total:** 10  
 1 Person: 0  
 2 Person: 0  
 3 Person: 4  
 12 Person: 0  
 23 Person: 1  
 Small Cargo: 0  
 Medium Cargo: 4  
 Large Cargo: 1  
 Super Cargo: 0  
 Mega Cargo: 0  
 Tractor Beams: 0

Tow Capacity: N/A  
 Max. Range: N/A  
**Cargo Specification:**  
 Standard Cargo Units: 500  
 Cargo Capacity: 25,000 mt  
 Deck Height: 2.4 m

**Shuttlecraft Specifications:**  
 Shuttlecraft Bays Total: 1  
 Small Bay: 0  
 Medium Bay: 0  
 Large Bay: 1  
 Super Bay: 0  
 Shuttlecraft Standard: 16  
 Work Boats: 0  
 Travel Pods: 0  
 Light Shuttle: 2  
 Aquatic Shuttle: 0  
 Shuttle Standard: 3  
 Heavy Shuttle: 1  
 Cargo Shuttle: 10  
 Heavy Fighter: 0  
 Lifeboats: 17  
 Turbo-lift (8 person): 5  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 0  
 Lifeboat (30 person): 9

**Decking Rings:** 2  
**Sensor Input Values:**  
 Planetary Survey: 0.020  
 Short Range: 0.020  
 Long Range: 0.020  
 Navigation: 0.020  
 Special: 0.020

**Computers:** 3  
**Type:** Daystrom Duotronic 8  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refresh Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m



# SHUTTLECRAFT CONTAINER



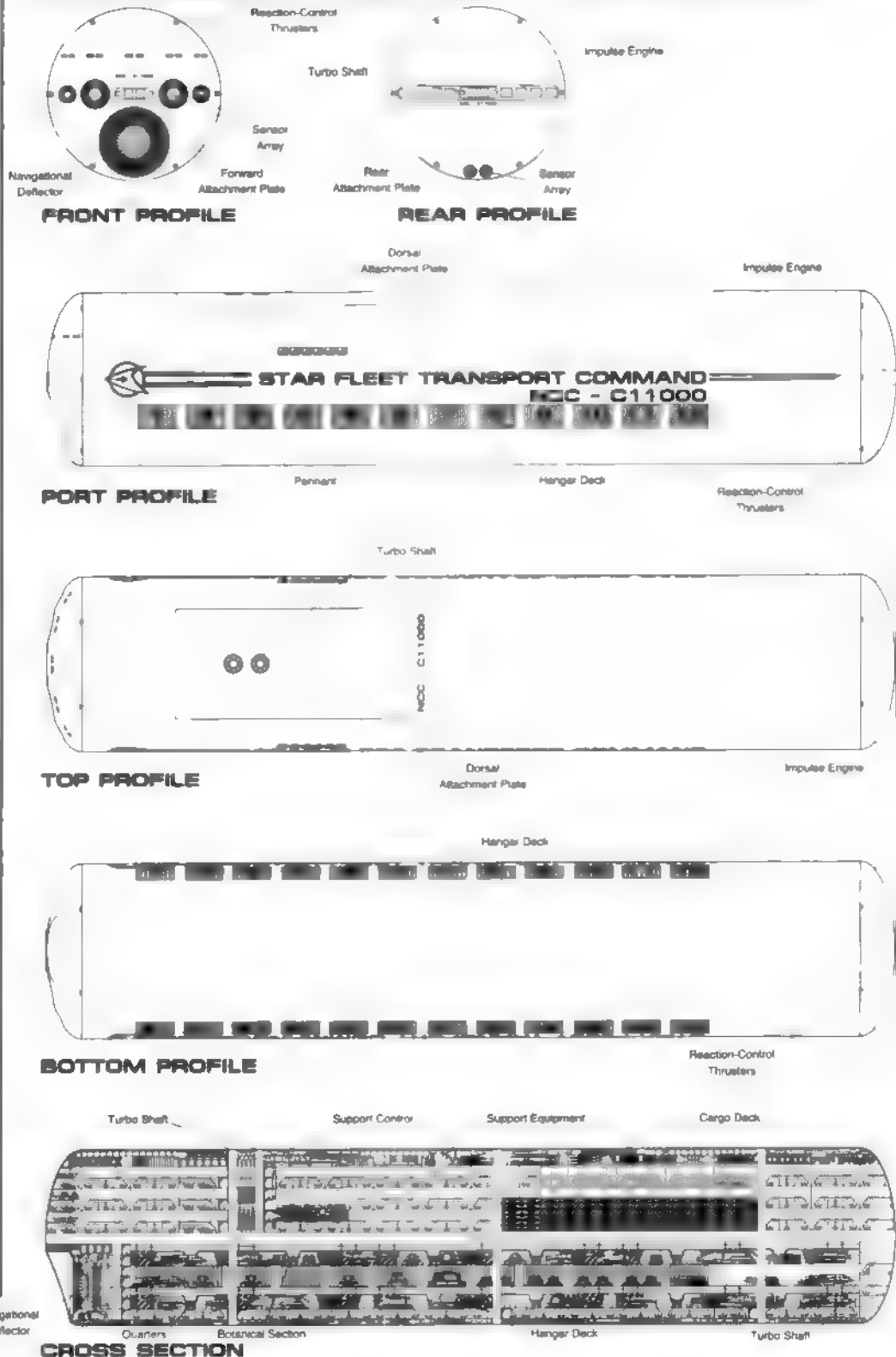
## Statistics

**Classification:** Container  
**Category:** Shuttlecraft Container  
**Type:** Class 7  
**Model:** MK XI  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons)**  
 Standard: 185,321mt  
 Full Load: 354,719mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 385  
**Officers:** 35  
**Crew (Ensign Grade):** 350  
**Passengers:** 30  
**Emergency condition:** +200  
**Medical Facilities:**  
 Doctors: 5  
 Nurses: 16  
**Operating Rooms:** 4  
 Beds: 20  
**Transporters Total:** 10  
 1 Person: 0  
 2 Person: 0  
 6 Person: 4  
 12 Person: 0  
 24 Person: 2  
 Small Cargo: 0  
 Medium Cargo: 4  
 Large Cargo: 0  
 Super Cargo: 0  
 Mega Cargo: 0  
 Tractor Beams: 0  
 Tow Capacity: N/A  
 Max. Range: N/A  
**Cargo Specifications:**  
 Standard Cargo Units: 100  
 Cargo Capacity: 5,000 mt  
 Deck Height: 24.72m  
**Shuttlecraft Specifications:**  
 Shuttlecraft Bays Total: 2  
 Small Bay: 0  
 Medium Bay: 0  
 Large Bay: 2  
 Super Bay: 0  
**Shuttlecraft Standard:** 97  
 Work Boats: 15  
 Travel Pods: 5  
 Light Shuttle: 20  
 Aquatic Shuttle: 5  
 Shuttle Standard: 26  
 Heavy Shuttle: 15  
 Fighter: 6  
 Heavy Fighter: 6  
 Lifeboats: 16  
 Turbolift (8 person): 8  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 0  
 Lifeboat (30 person): 8  
 Docking Rings: 2  
**Sensor Input Values:**  
 Planetary Survey: 0.020  
 Short Range: 0.020  
 Long Range: 0.020  
 Navigation: 0.020  
 Special: 0.020  
**Computers:** 1  
 Type: Daystrom Duotronic II  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refresh Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m

## General Information

The Shuttlecraft Container is used for the support of a large number of shuttles and fighters. The container is equipped with a twenty-four bay hangar deck with two additional main hangar decks. Located above the hangar facilities are the living quarters for the pilots.

For additional detail refer to Datasheet MVC-3



METERS  
 0 10 20 30 40 50  
 SCALE 1:1800



# SURVEY CONTAINER

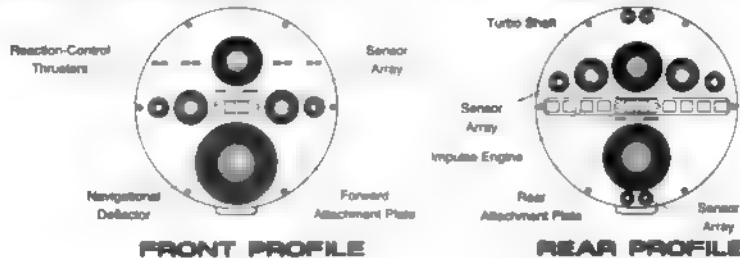
## General Information

The Survey Container is used for exploration, charting and research. The container is equipped with extensive laboratories and sensors. The container is also equipped with a six bay hangar deck used for specific location surveys.

For additional detail refer to Datasheet MVC-3

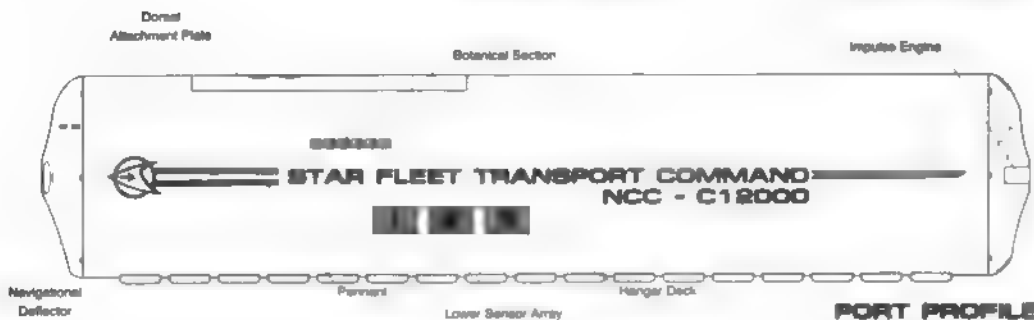
## Statistics

**Classification:** Container  
**Category:** Survey Container  
**Type:** Class 7  
**Model:** MK-XII  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 40.21m  
**Displacement (Metric Tons)**  
 Full Load: 355.891mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 366  
**Officers:** 36  
**Crew (Ensign Grade):** 330  
**Passengers:** 30  
**Emergency condition:** +200  
**Medical Facilities:**  
 Doctors: 5  
 Nurses: 12  
**Operating Rooms:** 4  
**Beds:** 15  
**Transporters Total:** 10  
 1 Person: 0  
 2 Person: 0  
 6 Person: 4  
 12 Person: 0  
 22 Person: 2  
**Small Cargo:** 0  
**Medium Cargo:** 4  
**Large Cargo:** 0  
**Super Cargo:** 0  
**Mega Cargo:** 0  
**Trajectory Beams:** 0  
**Tow Capacity:** N/A  
**Max. Range:** N/A  
**Cargo Specification:**  
 Standard Cargo Units: 300  
 Cargo Capacity: 15,000 mt  
 Deck Height: 2.4 m  
**Shuttlecraft Specifications:**  
**Shuttlecraft Bays Total:** 1  
 Small Bay: 0  
 Medium Bay: 1  
 Large Bay: 0  
 Super Bay: 0  
**Shuttlecraft Standard:** 24  
 Work Boats: 2  
 Travel Pods: 2  
 Light Shuttle: 1  
 Aquatic Shuttle: 2  
 Shuttle Standard: 4  
 Heavy Shuttle: 2  
 Survey Shuttle: 10  
 Heavy Fighter: 0  
**Lifeboats:** 22  
 TurboLift (8 person): 12  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 0  
 Lifeboat (30 person): 10  
**Decking Rings:** 2  
**Sensor Input Values:**  
 Planetary Survey: 1.566  
 Short Range: 1.754  
 Long Range: 1.344  
 Navigation: 0.501  
 Special: 1.622  
**Computers:** 1  
**Type:** Daystrom Duotronic Ila  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refractor Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m

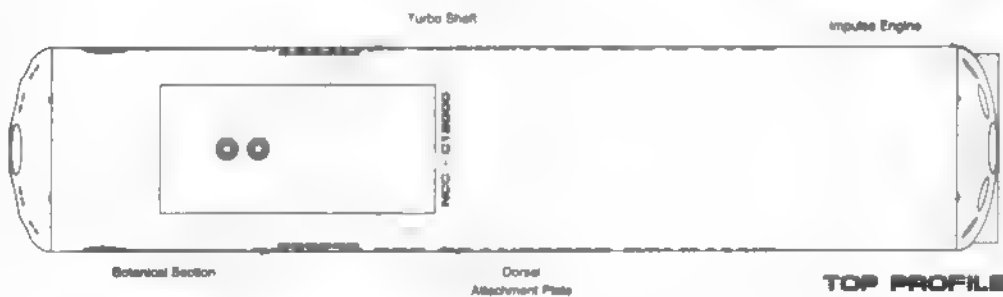


FRONT PROFILE

REAR PROFILE



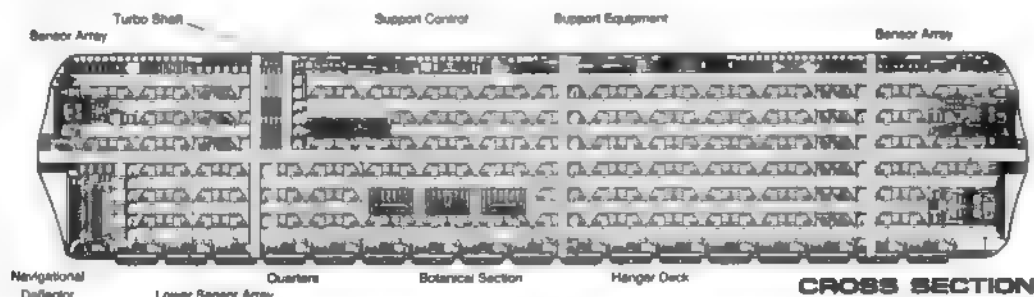
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION



# DEUTERIUM CONTAINER

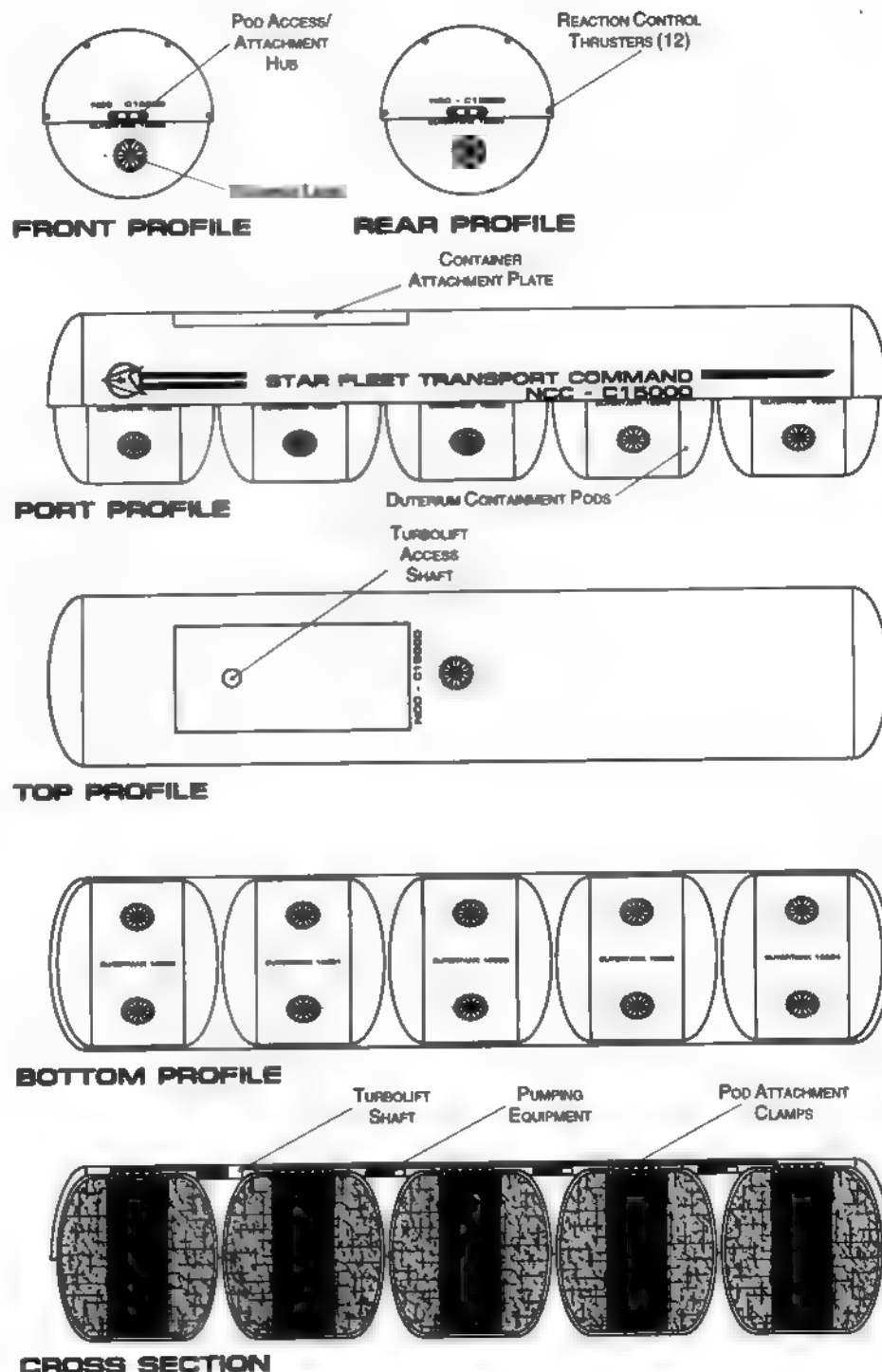


## Statistics

**Classification:** Container  
**Category:** Deuterium Container  
**Type:** Class 7  
**Model:** MK-XVI  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 25.63 / 47.71m  
**Displacement (Metric Tons)**  
 Standard: 125,389mt  
 Full Load: 558,125mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 0  
**Officers:** 0  
**Crew (Ensign Grade):** 0  
**Passengers:** 0  
**Emergency condition:** +0  
**Medical Facilities:**  
**Doctors:** 0  
**Nurses:** 0  
**Operating Rooms:** 0  
**Beds:** 0  
**Transporters Total:** 2  
 1 Person: 0  
 2 Person: 0  
 6 Person: 0  
 12 Person: 0  
 22 Person: 0  
**Small Cargo:** 0  
**Medium Cargo:** 2  
**Large Cargo:** 0  
**Super Cargo:** 0  
**Mega Cargo:** 0  
**TraCTOR Beams:** 0  
**Tow Capacity:** N/A  
**Max. Range:** N/A  
**Cargo Specification:**  
**Standard Cargo Units:** N/A  
**Cargo Capacity:** N/A  
**Deck Height:** N/A  
**Shuttlecraft Specifications:**  
**Shuttlecraft Bays Total:** 0  
 Small Bay: 0  
 Medium Bay: 0  
 Large Bay: 0  
 Super Bay: 0  
**Shuttlecraft Standard:** 0  
**Work Bees:** 0  
**Travel Pods:** 0  
**Light Shuttle:** 0  
**Aquatic Shuttle:** 0  
**Shuttle Standard:** 0  
**Assault Shuttle:** 0  
**Fighter:** 0  
**Heavy Fighter:** 0  
**Lifeboats:** 0  
 Turbolift (8 person): 0  
 Lifeboat (10 person): 0  
 Lifeboat (20 person): 0  
 Lifeboat (30 person): 0  
**Docking Rings:** 2  
**Sensor Input Values:**  
 Planetary Survey: 0.000  
 Short Range: 0.000  
 Long Range: 0.000  
 Navigation: 0.000  
 Special: 0.000  
**Computers:** 1  
 Type: Daystrom Duotronic Mk1  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refresh Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m

## General Information

The Deuterium Container is a modular deuterium super-tanker system. Each pod can be independently removed for use or service and can be jettisoned in an emergency.



METERS  
 0 10 20 30 40 50  
 SCALE 1:2000

# MEDICAL CONTAINER



## Statistics

**Classification:** Medical Container

**Category:** Container

**Type:** Class 7

**Model:** MK-XII

**Classification:**

**Overall Dimensions (Meters)**

Length: 235.05m

Width: 48.00m

Height: 48.00m

**Displacement (Metric Tons)**

Standard: 115,938mt

Full Load: 342,814mt

**Duration (Years)**

Standard: 15 Years

Maximum: 20 Years

**Std. Container Complement: 550**

Officers: 100

Crew (Ensign Grade): 450

Passengers: 1000

Emergency condition: +1000

**Medical Facilities:**

Doctors: 100

Nurses: 500

Operating Rooms: 80

Beds: 3000

**Transporters Total: 16**

1 Person: 0

2 Person: 0

6 Person: 8

12 Person: 0

22 Person: 4

Small Cargo: 4

Medium Cargo: 0

Large Cargo: 0

Super Cargo: 0

Mega Cargo: 0

**TraCTOR Beams: 0**

Tow Capacity: N/A

Max. Range: N/A

**Cargo Specification:**

Standard Cargo Units: 187

Cargo Capacity: 9,350mi

Deck Height: 2.4m

**Shuttlecraft Specifications:**

Shuttlecraft Bays Total: 12

Small Bay: 12

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 15

Work Bees: 0

Travel Pods: 0

Light Shuttle: 8

Aquatic Shuttle: 0

Shuttle Standard: 5

Heavy Shuttle: 0

Medical Shuttle: 10

Heavy Fighter: 0

Lifeboats: 35

Turbolift (8 person): 15

Lifeboat (10 person): 0

Lifeboat (20 person): 0

Lifeboat (30 person): 20

Docking Rings: 2

**Sensor Input Values:**

Planetary Survey: 0.020

Short Range: 0.020

Long Range: 0.020

Navigation: 0.020

Special: 0.020

**Computers: 1**

Type: Daystrom Duotronic IIx

**Shield Rating:**

Holdoff Power:  $3.24 \times 10^8$

Refresh Rate:  $9.21 \times 10^7$

Shield Dimensions (Meters)

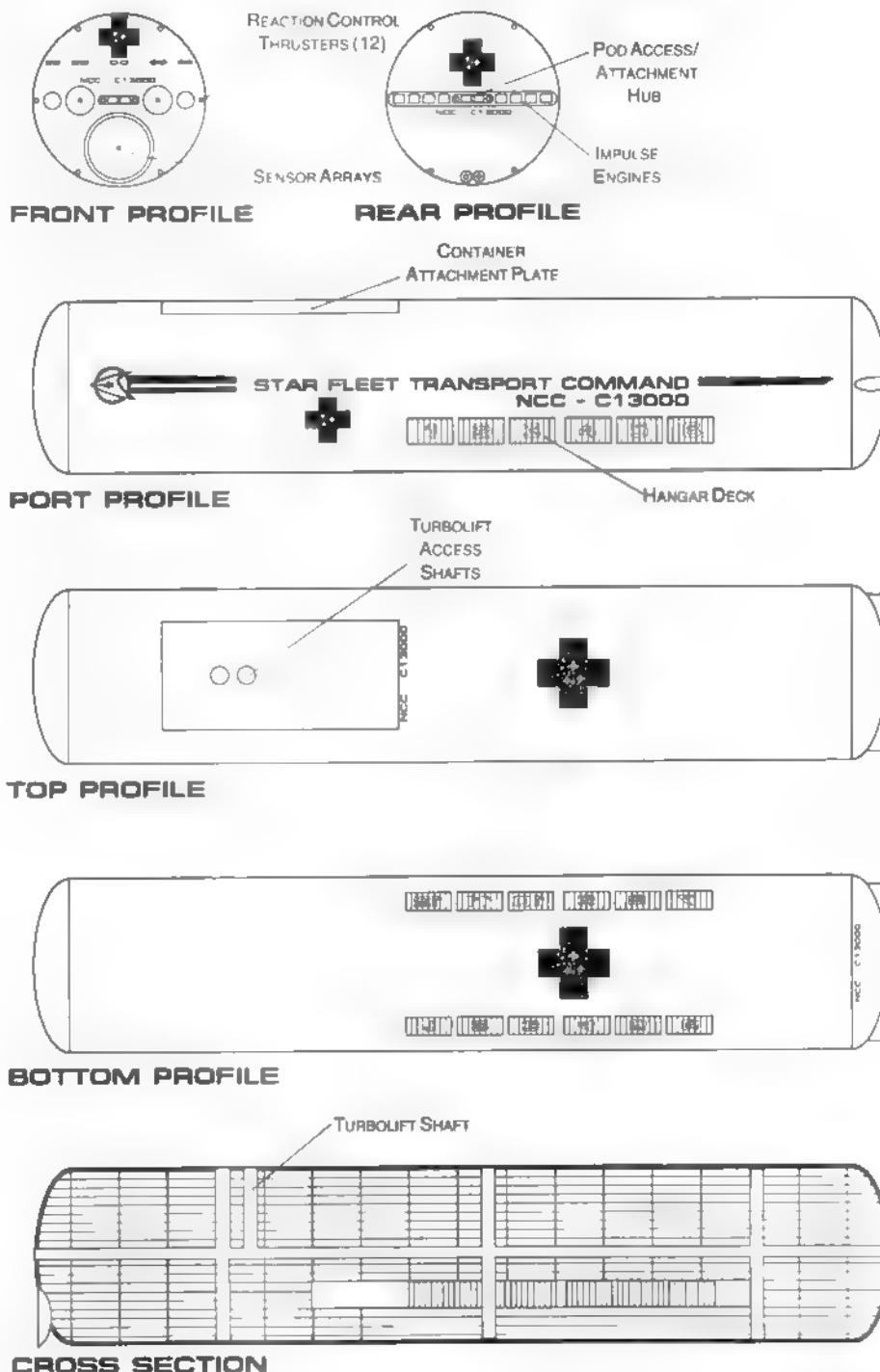
Length: 282.01m

Width: 57.6m

Height: 57.6m

## General Information

The Medical Container is a independent mobile medical facility providing support and emergency medical care throughout the Federation. The container is also equipped with a twelve-bay hangar deck used for patient transfer.



METERS  
0 10 20 30 40 50  
SCALE 1:1000



# STATION CONTAINER

## General Information

The Station Container is a hub for the attachment of various containers. The container is equipped with extensive support equipment and auxiliary power. The container is also equipped with a six bay hangar deck used for auxiliary hangar space.

POD ACCESS  
ATTACHMENT  
HUB



FRONT PROFILE

REAR ACCESS  
THROTTLE



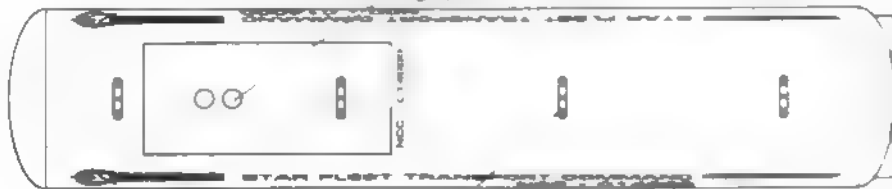
REAR PROFILE

CONTAINER  
ATTACHMENT  
PLATE



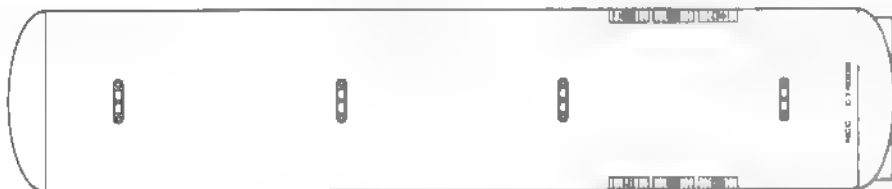
PORT PROFILE

HANGAR  
DECK



TOP PROFILE

POD ACCESS/  
ATTACHMENT  
HUB (18)



BOTTOM PROFILE

TURBOLIFT  
SHAFT



CROSS SECTION

METERS  
0 10 20 30 40 50  
SCALE 1:2000



CONTAINER SETUP

## Statistics

**Classification:** Station Container

**Category:** Container

**Type:** Class 7

**Model:** MK-XIV

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 235.05m

Width: 48.00m

Height: 48.00m

**Displacement (Metric Tons)**

Standard: 116,914mt

Full Load: 348,742mt

**Duration (Years)**

Standard: 15 Years

Maximum: 20 Years

**Std. Container Complement:** 156

Officers: 26

Crew (Ensign Grade): 130

Passengers: 200

Emergency condition: +200

**Medical Facilities:**

Doctors: 4

Nurses: 20

Operating Rooms: 3

Beds: 20

**Transporters Total:** 24

1 Person: 0

2 Person: 0

6 Person: 8

12 Person: 0

22 Person: 8

Small Cargo: 4

Medium Cargo: 4

Large Cargo: 0

Super Cargo: 0

Mega Cargo: 0

**Tractor Beams:** 1

Tow Capacity: 4.57x10<sup>6</sup>mt

Max Range: 1.03x10<sup>6</sup>km

**Cargo Specification:**

Standard Cargo Units: 187

Cargo Capacity: 9,350mt

Deck Height: 2.4m

**Shuttlecraft:**

Shuttlecraft Bays Total: 6

Small Bay: 6

Medium Bay: 0

Large Bay: 0

Super Bay: 0

**Shuttlecraft Standard:** 31

Work Bees: 4

Travel Pods: 4

Light Shuttle: 4

Aquatic Shuttle: 2

Shuttle Standard: 8

Heavy Shuttle: 3

Medical Shuttle: 2

Cargo Shuttle: 4

**Lifeboats:** 50

Turbolift (8 person): 20

Lifeboat (10 person): 5

Lifeboat (20 person): 5

Lifeboat (30 person): 20

**Docking Rings:** 2

**Sensor Input Values:**

Planetary Survey: 0.020

Short Range: 0.020

Long Range: 0.020

Navigation: 0.020

Special: 0.020

**Computers:** 1

Type: Davstrom Duotronic IIx

**Shield Rating:**

Holdoff Power: 3.24x10<sup>8</sup>

Refresh Rate: 9.21x10<sup>7</sup>

**Shield Dimensions (Meters)**

Length: 282.01m

Width: 57.6m

Height: 57.6m

DELIVERANCE CLASS

FEDERATION CONTAINER



# TENDER CONTAINER

## General Information

The Tender container carries parts and repair facilities normally to large or obscure to be included in a starships inventory. When attached to a container tug this facility can get to stranded vessels and replace their warp core or repair hull breaches before it has to be abandoned. Starfleet has saved much time and money with this system.

## Statistics

**Classification:** Container  
**Category:** Tender Container  
**Type:** Class 7  
**Model:** MK-XVI  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 235.05m  
 Width: 48.00m  
 Height: 48.00m  
**Displacement (Metric Tons)**  
 Standard: 235,347mt  
 Full Load: 347,442mt  
**Duration (Years)**  
 Standard: 15 Years  
 Maximum: 20 Years  
**Std. Container Complement:** 115  
**Officers:** 15  
**Crew (Ensign Grade):** 100  
**Passengers:** 30  
**Emergency condition:** +200  
**Medical Facilities**  
 Doctors: 2  
 Nurses: 8  
 Operating Rooms: 3  
 Beds: 10  
**Transporters Total:** 12  
 1 Person: 0  
 2 Person: 0  
 6 Person: 4  
 12 Person: 2  
 22 Person: 0  
 Small Cargo: 0  
 Medium Cargo: 4  
 Large Cargo: 2  
 Super Cargo: 0  
 Mega Cargo: 0  
 Tractor Beams: 0  
 Tow Capacity:  $1.25 \times 10^6$ mt  
 Max. Range:  $2.51 \times 10^3$ km  
**Cargo Specification:**  
 Standard Cargo Units: 150  
 Cargo Capacity: 7,500 mt  
 Deck Height: 2.4 m  
**Shuttlecraft Specifications:**  
 Shuttlecraft Bays Total: 3  
 Small Bay: 0  
 Medium Bay: 1  
 Large Bay: 2  
 Super Bay: 0  
 Shuttlecraft Standard: 13  
 Travel Pods: 2  
 Light Shuttle: 1  
 Standard Shuttle: 2  
 Passenger Shuttle: 1  
 Light Cargo Shuttle: 2  
 Cargo Shuttle: 2  
 Heavy Cargo Shuttle: 2  
 Lifeboats: 7  
 Turbolift (8 person): 5  
 Lifeboat (10 person): 0  
 Lifeboat (30 person): 2  
 Lifeboat (30 person): 0  
 Docking Rings: 2  
**Sensor Input Values:**  
 Planetary Survey: 0.020  
 Short Range: 0.020  
 Long Range: 0.020  
 Navigation: 0.020  
 Special: 0.020  
**Computers:** 1  
 Type: Daystrom Duotronic II2  
**Shield Rating:**  
 Holdoff Power: 3.24E8  
 Refresh Rate: 9.21E7  
**Shield Dimensions (Meters)**  
 Length: 282.01m  
 Width: 57.6m  
 Height: 57.6m

POD ACCESS/  
ATTACHMENT  
HUB

SENSOR ARRAYS

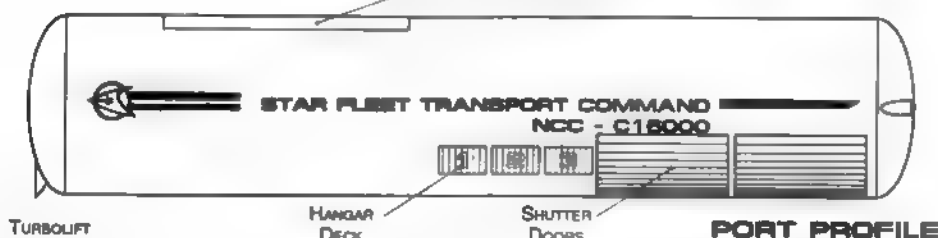
FRONT PROFILE

REACTION CONTROL  
THRUSTERS (12)

IMPULSE  
ENGINES

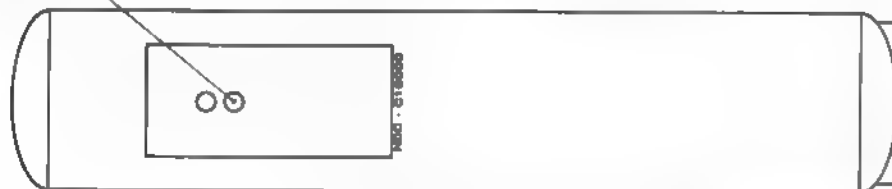
REAR PROFILE

CONTAINER  
ATTACHMENT PLATE

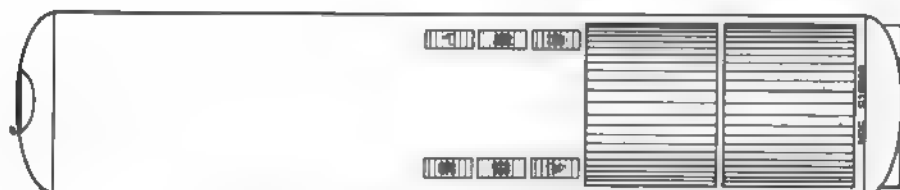


PORT PROFILE

TURBOLIFT  
ACCESS  
SHAFTS



TOP PROFILE



BOTTOM PROFILE

TURBOLIFT  
SHAFT



CROSS SECTION

METERS  
0 10 20 30 40 50  
SCALE 1:2000

DELIVERANCE CLASS

FEDERATION CONTAINER





# SPACE STATIONS

GENERAL INFORMATION

FEDERATION FACILITY

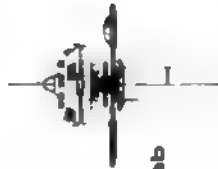
## Size Comparison



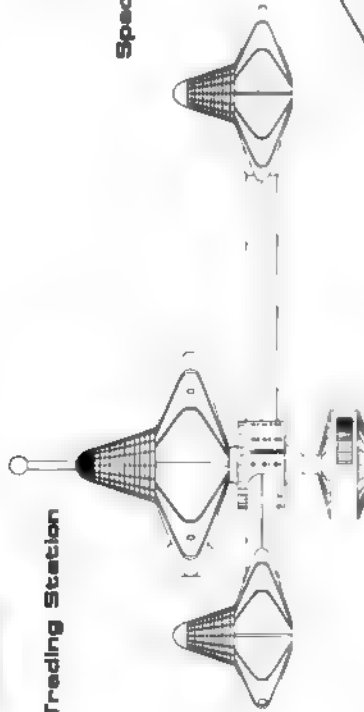
Communication Station



Specelab



Trading Station



Spacedock



METERS  
0 100 200 300  
SCALE 1:6200

# COMMUNICATION STATION



## General Information

**Specific Role:** The primary mission of the Communication Station is the relaying and boosting of Federation communications. The station is also able to monitor communications and signals, letting it fulfill its secondary mission as a monitoring facility. Often the relay locations are set up in close proximity to hostile zones as listening posts while still fulfilling their role within the Federation communication network.

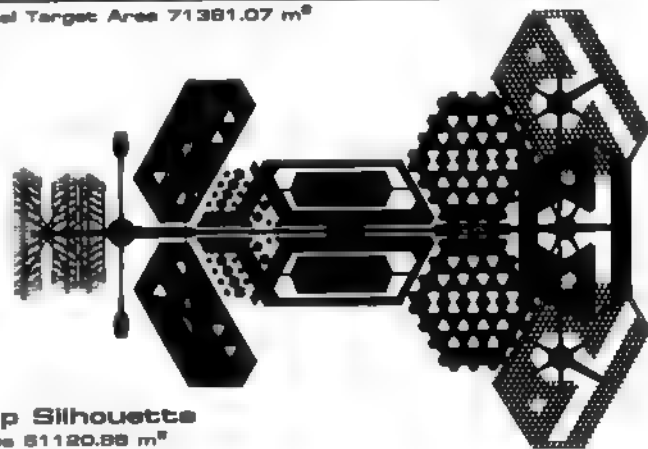
**Physical Description:** The standard Communication Station has 42 antennas making up 11 communication arrays: the (CA-254/8146)  $\phi$  Array which has 2 antennas covers the  $10^2$ - $10^1$  Hz frequency range, the (CA 138/8008)  $\xi$  Array which has 1 antenna covers the  $10^5$ - $10^7$  Hz frequency range, the (CA-995/7995)  $\lambda$  Array which has 2 antennas covers the  $10^1$ - $10^3$  Hz frequency range, the (CA 956/6492)  $\epsilon$  Array which has 2 antennas covers the  $10^3$ - $10^4$  Hz frequency range, the (CA-894/4118)  $\omega$  Array which has 2 antennas covers the  $10^4$ - $10^5$  Hz frequency range, the (CA-256/2401)  $\alpha$  Array which has of 1 antenna covers the  $10^9$   $10^{11}$  Hz frequency range, the (CA 71/2248)  $\theta$  Array which has 2 antennas covers the  $10^7$ - $10^9$  Hz frequency range, the (CA-134/2187)  $\beta$  Array which has 1 antenna covers the  $10^{13}$ - $10^{15}$  Hz frequency range, the (CA 78/2187)  $\chi$  Array which has 1 antenna covers the  $10^{11}$ - $10^{13}$  Hz frequency range, the (CA-152/71)  $\gamma$  Array which has 2 antennas covers the  $10^{15}$ - $10^{18}$  Hz frequency range, and the (CA-21/24)  $\phi$  Array which has 16 antennas covers the  $10^{18}$ - $10^{22}$  Hz frequency range. The antennas are supported by a (SS438/S-C34) spine which houses the support equipment and living quarters for the facility. Located below the spine is the (SH48/S S2) engineering section which contains the (M8/4-2C) intermix chamber and (AM8/48-4E) matter/antimatter storage tanks. These tanks are located towards the lower rear of the engineering section for emergency jettisoning. Located above the spine is the (SH22/C-S1) command section which contains the command/control and communication equipment. Positioned to each side of the spine are two (SH36/H-S5) small hangar decks located away from the sensor arrays.

### Class Emblem



### Facility Silhouettes

Total Target Area 71381.07 m<sup>2</sup>



Top Silhouette  
Area 51120.88 m<sup>2</sup>



Port Silhouette  
Area 5788.98 m<sup>2</sup>



Front Silhouette  
Area 4473.25 m<sup>2</sup>



# COMMUNICATION STATION

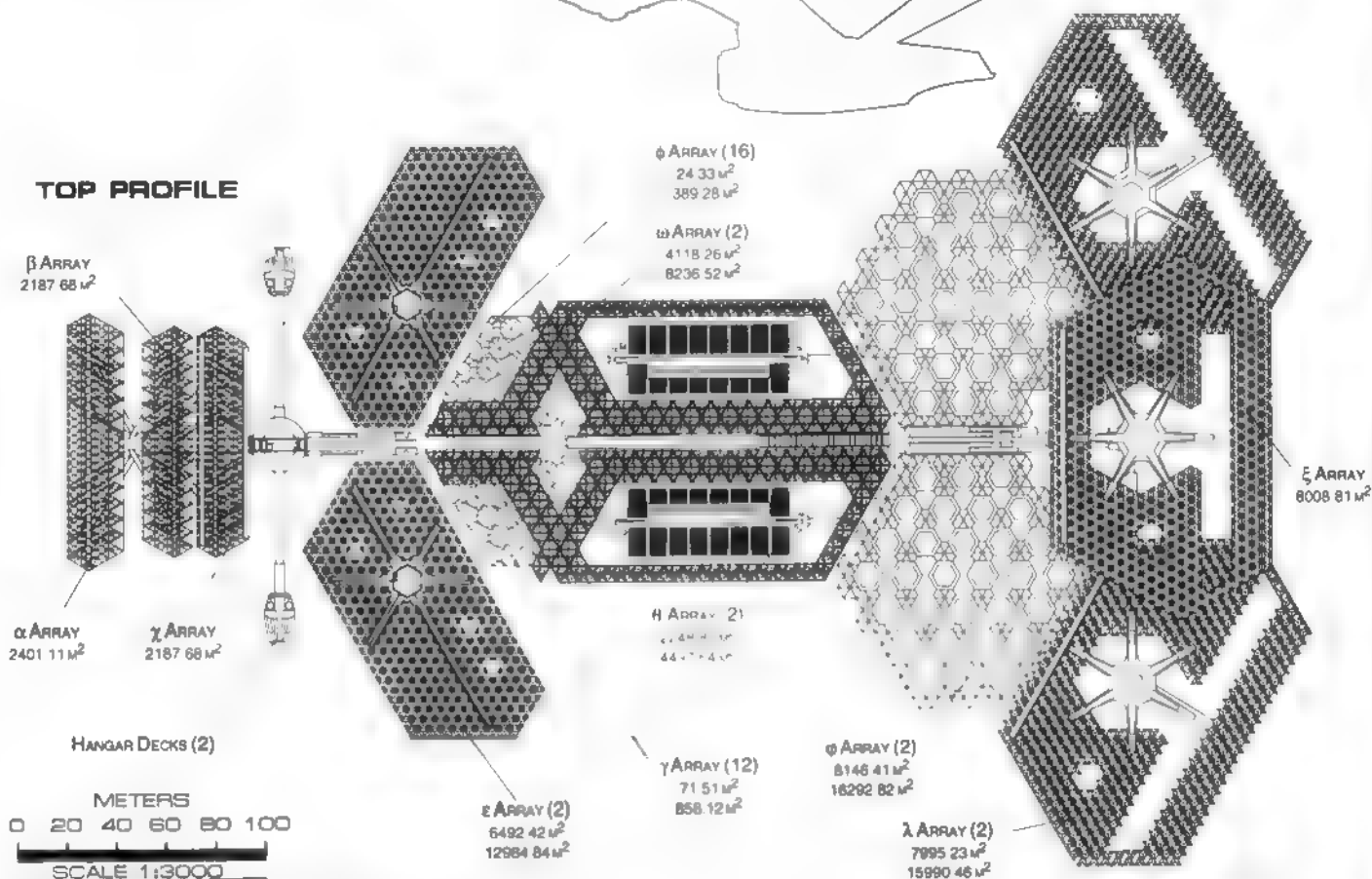
COMMAND SECTION

ENGINEERING SECTION

STATION SPINE

PORT PROFILE

TOP PROFILE



## Statistics

**Classification:** Communication Station

**Category:** Space Station

**Class:** Epsilon

**Type:** Class 3

**Model:** Type E

**Naval Construction Contract:** E-1

**Number Proposed:** 98

**Number Constructed:** 98

**Number in Service:** 96

**Number Lost:** 2

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 506 81m

Width: 347 41m

Height: 42 55m

**Displacement (Metric Tons)**

Light: 342,794mt

Standard: 367,264mt

Full Load: 409,985mt

**Performance:**

Secondary Reactor Output:  $9.5 \times 10^{13}$  W

Primary Reactor Output:  $2.4 \times 10^{15}$  W

**Duration (Years)**

Standard: 10 Years

Maximum: 40 Years

**Std. Ship Complement:** 539

Officers: 6

**Crew (Ensign Grade):** 31

Troops: 0

Passengers: 15

Emergency condition: +120

**Medical Facilities:**

Doctors: 2

Nurses: 5

Operating Rooms: 2

Beds: 5

**Laboratories:** 1

**Transporters Total:** 3

1 Person: 0

2 Person: 0

8 Person: 2

12 Person: 0

22 Person: 0

Small Cargo: 1

Medium Cargo: 0

Large Cargo: 0

Super Cargo: 0

**Brigs:** 2

**Replicators:** 8

**Traitor Beams:** 1

Tow Capacity:  $1.88 \times 10^6$  mt

Max Range:  $9.39 \times 10^5$  km

**Cargo Specification:**

**Standard Cargo Units:** 40

**Cargo Capacity:** 2 000mt

**Shuttlecraft Specifications:**

Docking Ports: 2

Shuttlecraft Bays Total: 2

Small Bay: 2

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 12

Work Bees: 6

Travel Pods: 1

Aquatic Shuttle: 0

Light Shuttle: 1

Standard Shuttle: 4

Heavy Shuttle: 0

Cargo Shuttle: 0

Assault Shuttle: 0

Killer Bees: 0

Fighter: 0

Heavy Fighter: 0

Lifeboats: 10

Turbolift (8 person): 6

Lifeboat (10 person): 3

Lifeboat (20 person): 1

Lifeboat (30 person): 0

**Computers:** 2

Type: Daystrom Duotronic III:c

Type: Daystrom Duotronic III:h

**Shield Rating:**

Holdoff Power:  $2.68 \times 10^{12}$  W

Refresh Rate:  $8.20 \times 10^{11}$  W

Breakdown Rate:  $9.84 \times 10^{11}$  W

Shield Dimensions (Meters)

Length: 608 17m

Width: 416 89m

Height: 53.21m

**Weapons:**

Beam (Phasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Torpedoes (Photon) Total: 0

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

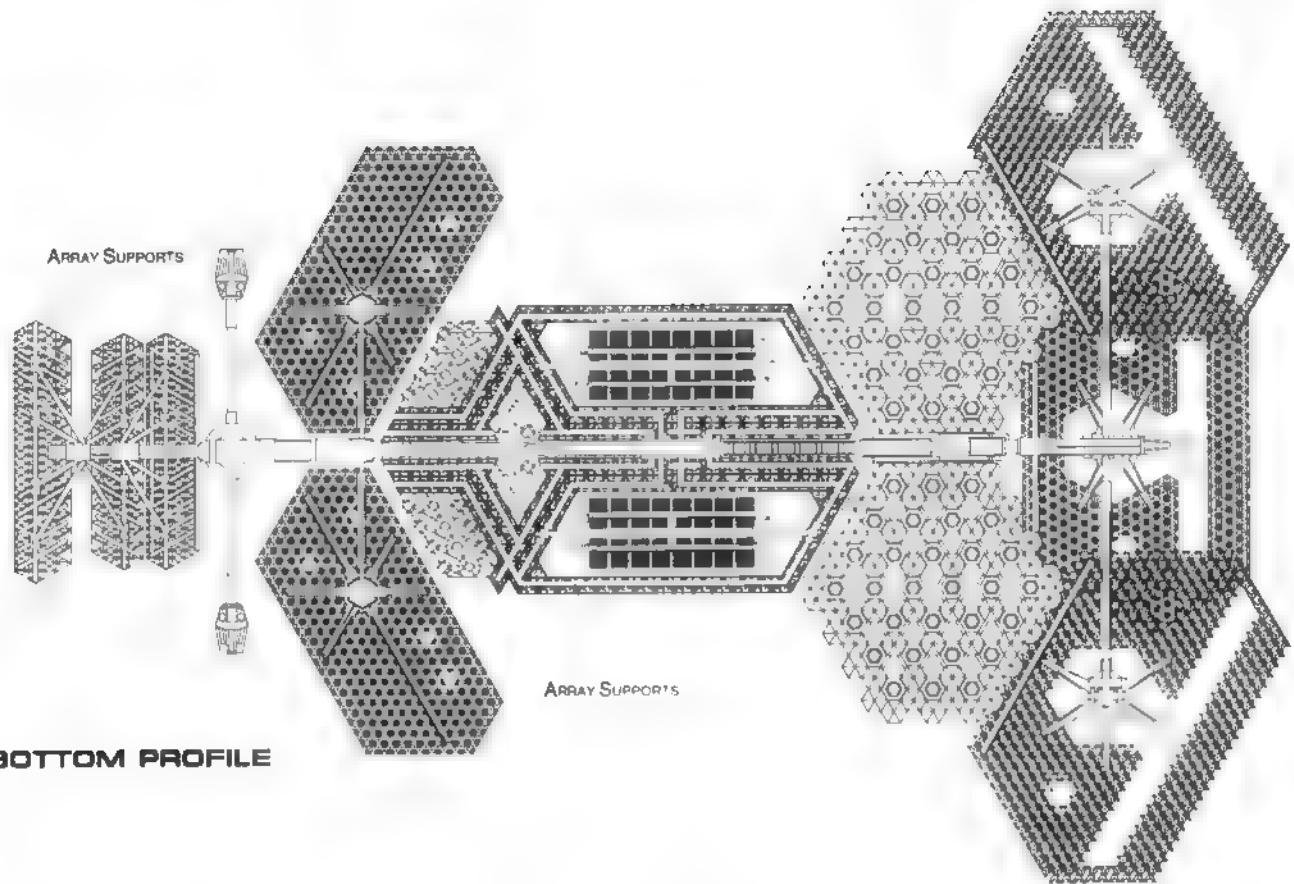
EPSILON CLASS

FEDERATION FACILITY

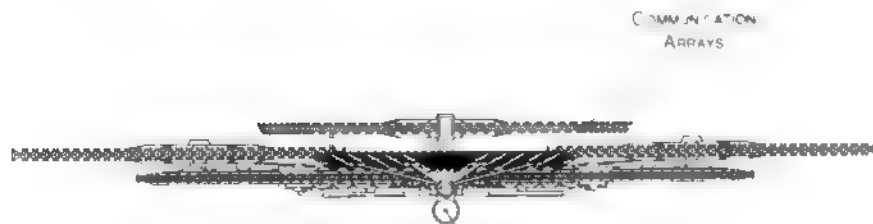
# COMMUNICATION STATION



EPSILON CLASS

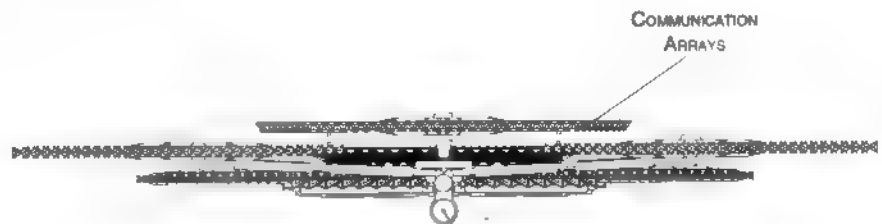


**BOTTOM PROFILE**



**FRONT PROFILE**

STATION SPLINE



STATION SPLINE

METERS  
0 10 20 30 40 50

SCALE 1:2000

**REAR PROFILE**

FEDERATION FACILITY



# COMMUNICATION STATION

## Facility Names

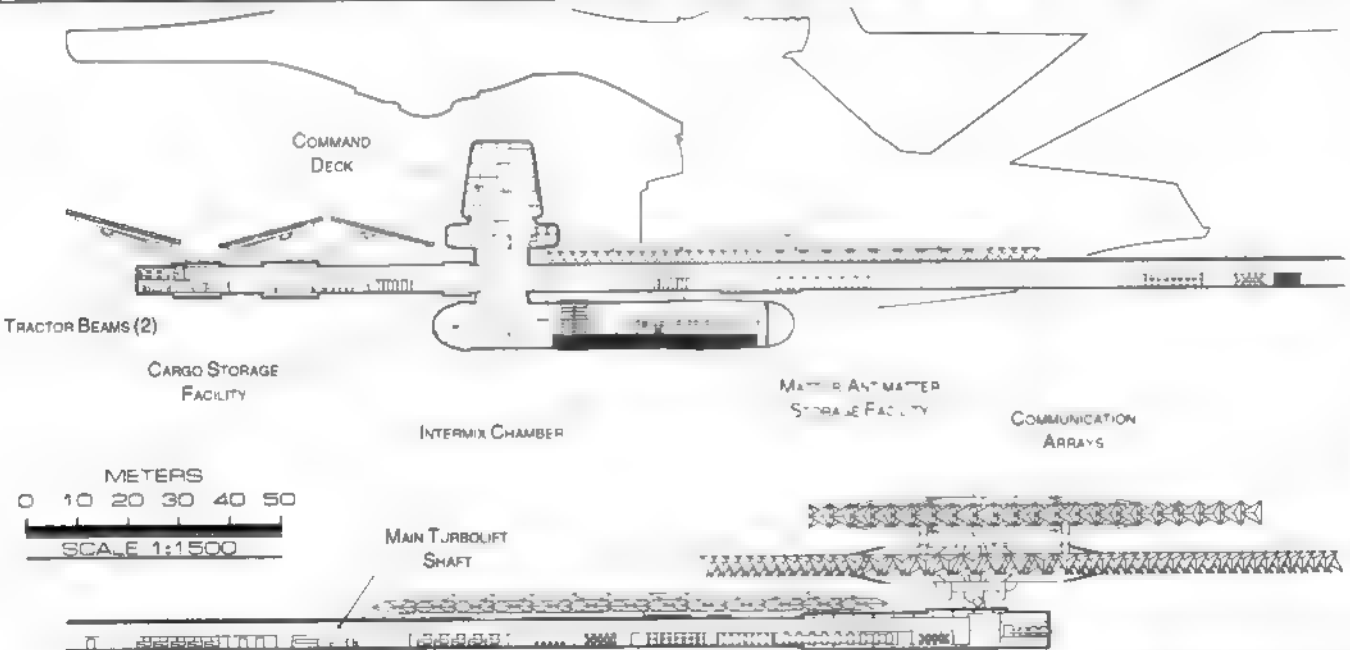
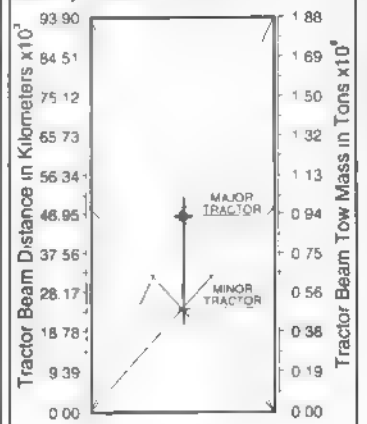
THE FOLLOWING FACILITIES OF THE TYPE E CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2260.4

EPSILON 1-E-1*	EPSILON 26-E-26	EPSILON 51-E-51	EPSILON 76-E-76
EPSILON 2-E-2	EPSILON 27-E-27	EPSILON 52-E-52	EPSILON 77-E-77**
EPSILON 3-E-3	EPSILON 28-E-28	EPSILON 53-E-53	EPSILON 78-E-78
EPSILON 4-E-4	EPSILON 29-E-29	EPSILON 54-E-54	EPSILON 79-E-79
EPSILON 5-E-5	EPSILON 30-E-30	EPSILON 55-E-55	EPSILON 80-E-80
EPSILON 6-E-6	EPSILON 31-E-31	EPSILON 56-E-56	EPSILON 81-E-81
EPSILON 7-E-7	EPSILON 32-E-32	EPSILON 57-E-57	EPSILON 82-E-82
EPSILON 8-E-8	EPSILON 33-E-33	EPSILON 58-E-58	EPSILON 83-E-83
EPSILON 9-E-9	EPSILON 34-E-34	EPSILON 59-E-59	EPSILON 84-E-84
EPSILON 10-E-10	EPSILON 35-E-35	EPSILON 60-E-60	EPSILON 85-E-85
EPSILON 11-E-11	EPSILON 36-E-36	EPSILON 61-E-61	EPSILON 86-E-86
EPSILON 12-E-12	EPSILON 37-E-37	EPSILON 62-E-62	EPSILON 87-E-87
EPSILON 13-E-13	EPSILON 38-E-38	EPSILON 63-E-63	EPSILON 88-E-88
EPSILON 14-E-14	EPSILON 39-E-39	EPSILON 64-E-64	EPSILON 89-E-89
EPSILON 15-E-15	EPSILON 40-E-40	EPSILON 65-E-65	EPSILON 90-E-90
EPSILON 16-E-16	EPSILON 41-E-41	EPSILON 66-E-66	EPSILON 91-E-91**
EPSILON 17-E-17	EPSILON 42-E-42	EPSILON 67-E-67	EPSILON 92-E-92
EPSILON 18-E-18	EPSILON 43-E-43	EPSILON 68-E-68	EPSILON 93-E-93
EPSILON 19-E-19	EPSILON 44-E-44	EPSILON 69-E-69	EPSILON 94-E-94
EPSILON 20-E-20	EPSILON 45-E-45	EPSILON 70-E-70	EPSILON 95-E-95
EPSILON 21-E-21	EPSILON 46-E-46	EPSILON 71-E-71	EPSILON 96-E-96
EPSILON 22-E-22	EPSILON 47-E-47	EPSILON 72-E-72	EPSILON 97-E-97
EPSILON 23-E-23	EPSILON 48-E-48	EPSILON 73-E-73	EPSILON 98-E-98
EPSILON 24-E-24	EPSILON 49-E-49	EPSILON 74-E-74	
EPSILON 25-E-25	EPSILON 50-E-50**	EPSILON 75-E-75	

\*CLASS FACILITY. \*\*LOST IN THE LINE OF DUTY \*\*PROPOSED ALL NAMES PRECEDED WITH UFP

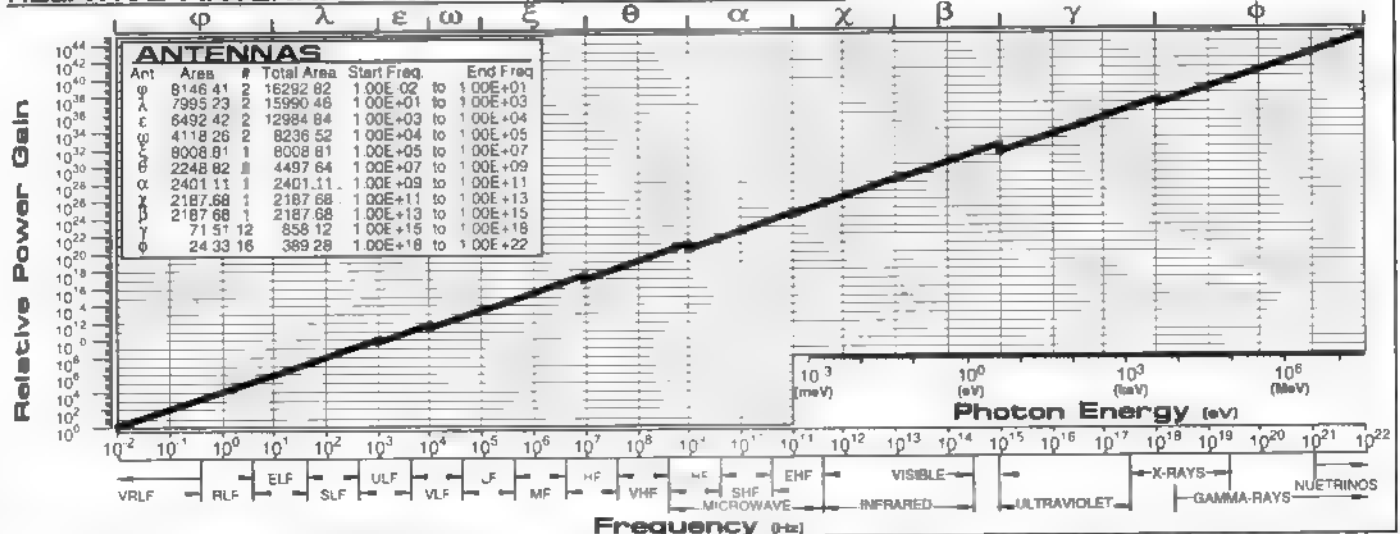
## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



CROSS SECTION  
ENLARGED FOR CLARITY

## RELATIVE ANTENNA POWER GAIN VS FREQUENCY



# TRADING STATION



## General Information

**Specific Role:** Trading Stations are designed for extensive cargo handling and to provide recreational facilities for passing ships. Cargo handling and transshipping facilities at remote locations enhance vital trade routes throughout the Federation. Comprehensive recreational facilities are provided for the relaxation of the crews of various species during cargo transfers and lay overs.

**Physical Description:** The Trading Post consists of a central hub and three exterior habitats which are attached radially by connecting arms. The central hub is made up of three sections: the (SS728/T-S2) main hub, the (SS432/T-S9) connecting hub, and the (SS412/T-S5) hangar deck. The main hub contains the communication array, administration and botanical sections, living quarters, recreational facilities, and engineering section. Situated inside the engineering section is an (M30/8-2E) intermix chamber and (AM8/48-4K) matter/antimatter storage tanks. The tanks are located along the outer hull of the engineering section for emergency jettisoning. The connecting hub contains the main cargo storage facility and 27 exterior docking ports. The hangar deck is designed to accommodate a large number of shuttlecraft, both conventional and non-conventional. Each (DU/587-555C) connecting arm contains extensive living quarters. Each (SS538/T-A3) exterior section (Alpha, Beta and Gamma) contains additional living quarters, recreational facilities, and cargo storage and handling facilities.

## Class Emblem



## Facility Silhouettes

Total Target Area 183191.98 m<sup>2</sup>



Port Silhouette  
Area 44591.04 m<sup>2</sup>



Top Silhouette  
Area 91955.98 m<sup>2</sup>



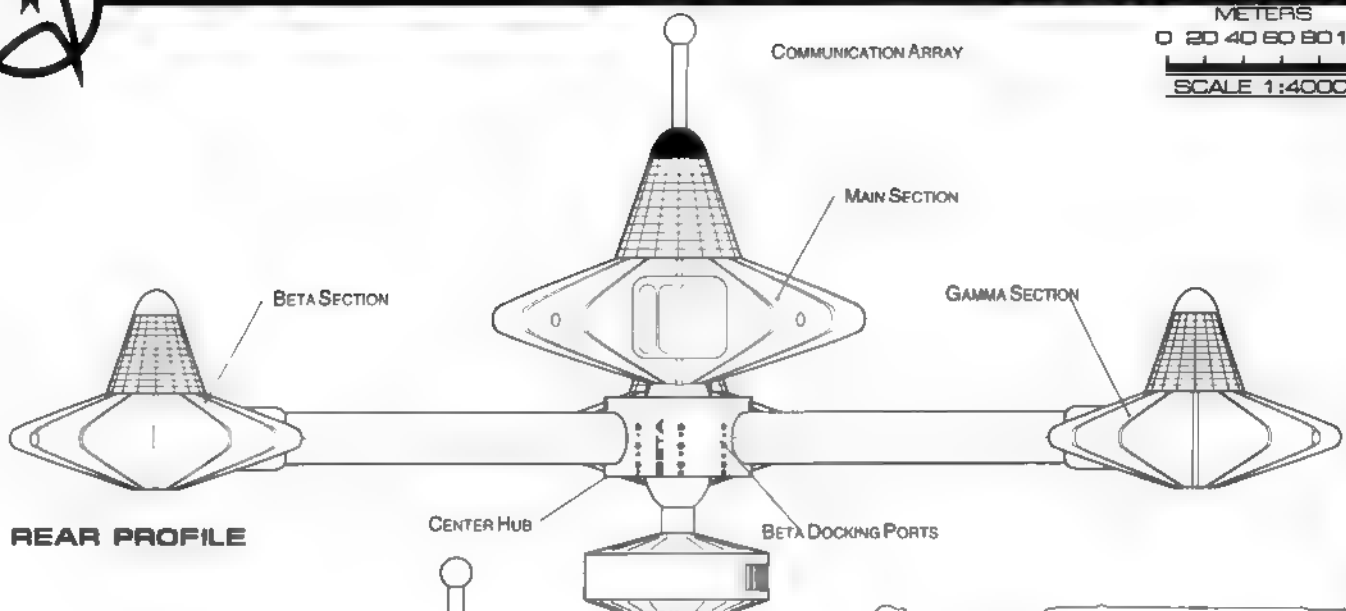
Rear Silhouette  
Area 48543.96 m<sup>2</sup>



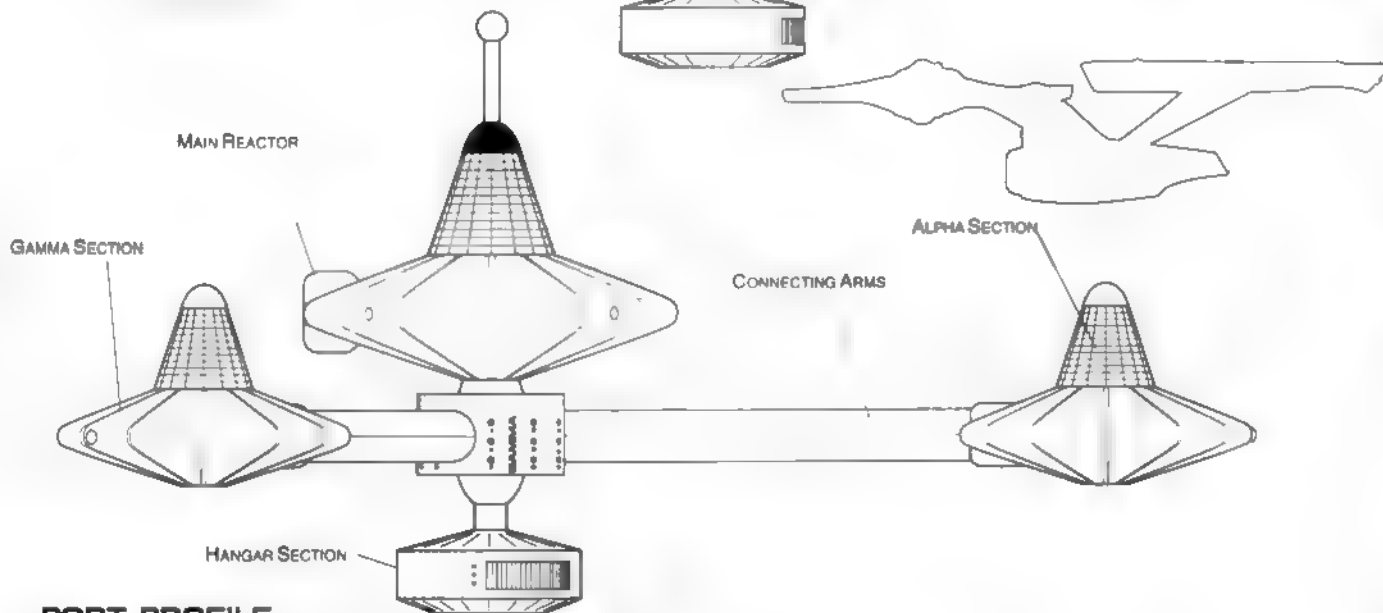
# TRADING STATION

KEPLER CLASS

METERS  
0 20 40 60 80 100  
SCALE 1:4000



REAR PROFILE



PORT PROFILE

## Statistics

**Classification:** Trading Station

**Category:** Space Station

**Class:** Kepler

**Type:** Class 3

**Model:** Type K

**Naval Construction Contract:** K-1

**Number Proposed:** 96

**Number Constructed:** 96

**Number in Service:** 96

**Number Lost:** 0

**Dimensions:**

**Overall Dimensions (Meters)**

**Length:** 634.43m

**Width:** 704.80m

**Height:** 318.31m

**Displacement (Metric Tons)**

**Light:** 845,829mt

**Standard:** 691,932mt

**Full Load:** 772,418mt

**Performance:**

**Secondary Reactor Output:**  $7.5 \times 10^{13}$  W

**Primary Reactor Output:**  $1.2 \times 10^{15}$  W

**Duration (Years)**

**Standard:** 10 Years

**Maximum:** 40 Years

**Std. Ship Complement:** 1130

**Officers:** 192

**Crew (Ensign Grade):** 938

**Troops:** 0

**Passengers:** 400

**Emergency condition:** +400

**Medical Facilities:**

**Doctors:** 8

**Nurses:** 42

**Operating Rooms:** 8

**Beds:** 42

**Laboratories:** 8

**Transporters Total:** 22

**1 Person:** 0

**2 Person:** 2

**6 Person:** 8

**12 Person:** 0

**22 Person:** 4

**Small Cargo:** 4

**Medium Cargo:** 4

**Large Cargo:** 0

**Super Cargo:** 0

**Bridge:** 32

**Replicators:** 21

**Tractor Beams:** 2

**Tow Capacity:**  $3.65 \times 10^6$  mt

**Max Range:**  $1.45 \times 10^6$  km

**Cargo Specification:**

**Standard Cargo Units:** 3245

**Cargo Capacity:** 162,250mt

**Shuttlecraft Specifications:**

**Docking Ports:** 27

**Shuttlecraft Bays Total:** 1

**Small Bay:** 0

**Medium Bay:** 1

**Large Bay:** 0

**Super Bay:** 0

**Shuttlecraft Standard:** 30

**Work Bees:** 2

**Travel Pods:** 2

**Aquatic Shuttle:** 0

**Light Shuttle:** 4

**Standard Shuttle:** 12

**Heavy Shuttle:** 2

**Cargo Shuttle:** 8

**Assault Shuttle:** 0

**Killer Bees:** 0

**Fighter:** 0

**Heavy Fighter:** 0

**Lifeboats:** 76

**Turbolift (8 person):** 52

**Lifeboat (10 person):** 8

**Lifeboat (20 person):** 8

**Lifeboat (30 person):** 8

**Computers:** 2

**Type:** Daystrom Duotronic III z

**Type:** Daystrom Duotronic II h

**Shield Rating:**

**Holdoff Power:**  $5.42 \times 10^{12}$  W

**Refresh Rate:**  $9.35 \times 10^{11}$  W

**Breakdown Rate:**  $1.12 \times 10^{11}$  W

**Shield Dimensions (Meters)**

**Length:** 761.32m

**Width:** 845.78m

**Height:** 381.97m

**Weapons:**

**Beam (Phasers) Total:** 6 banks 2 each

**Output:**  $5.0 \times 10^{11}$  W /  $2.5 \times 10^{11}$  W

**Range:**  $2.5 \times 10^6$  km

**Rate of Fire:** 30 ppm Cont

**Beam (MegaPhasers) Total:** 0

**Output:** N/A

**Range:** N/A

**Rate of Fire:** N/A

**Torpedoes (Photon) Total:** 0

**Stock:** N/A

**Range:** N/A

**Output:** N/A

**Rate of Fire:** N/A

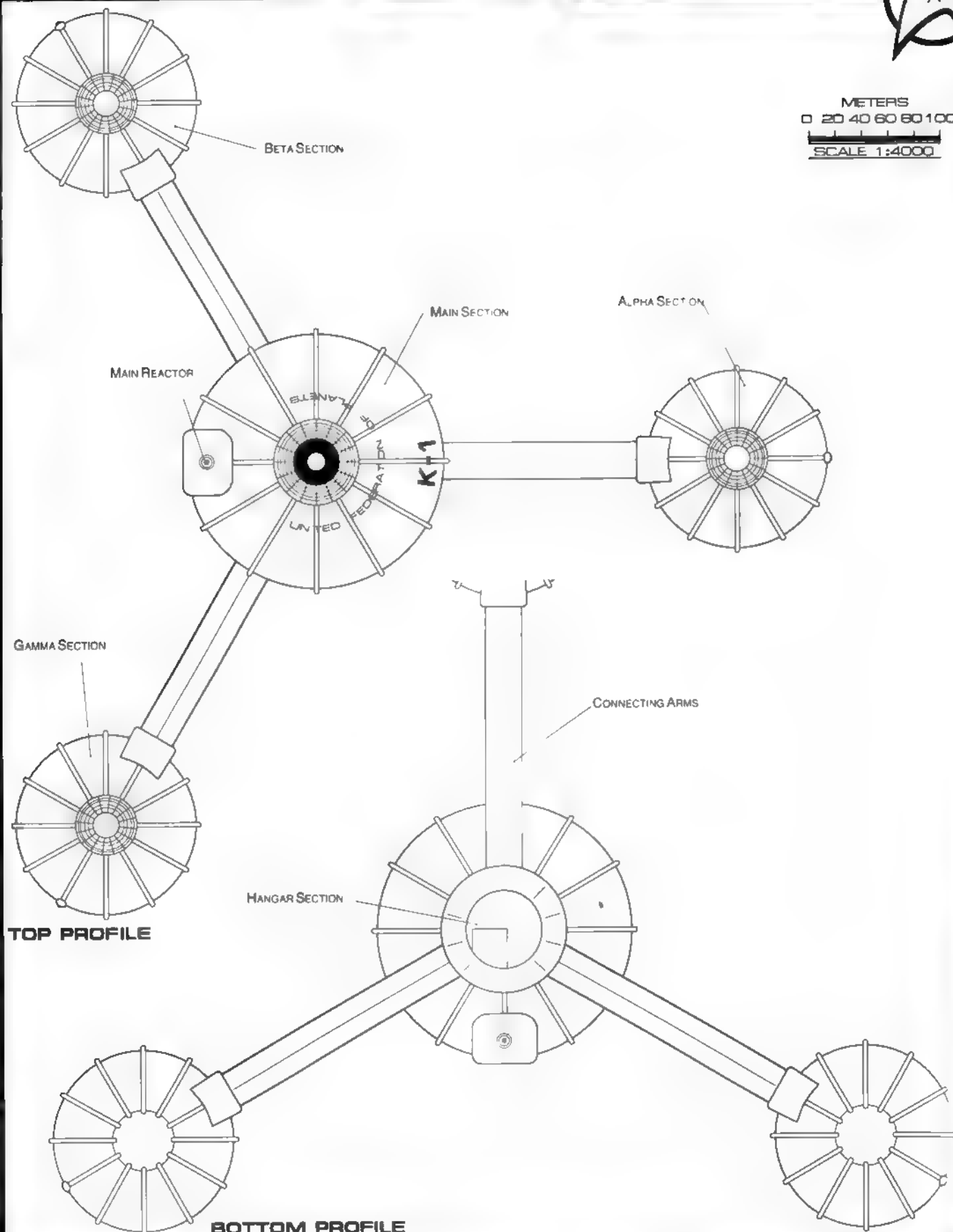
FEDERATION FACILITY



# TRADING STATION



METERS  
0 20 40 60 80 100  
SCALE 1:4000





# TRADING STATION

## Facility Names

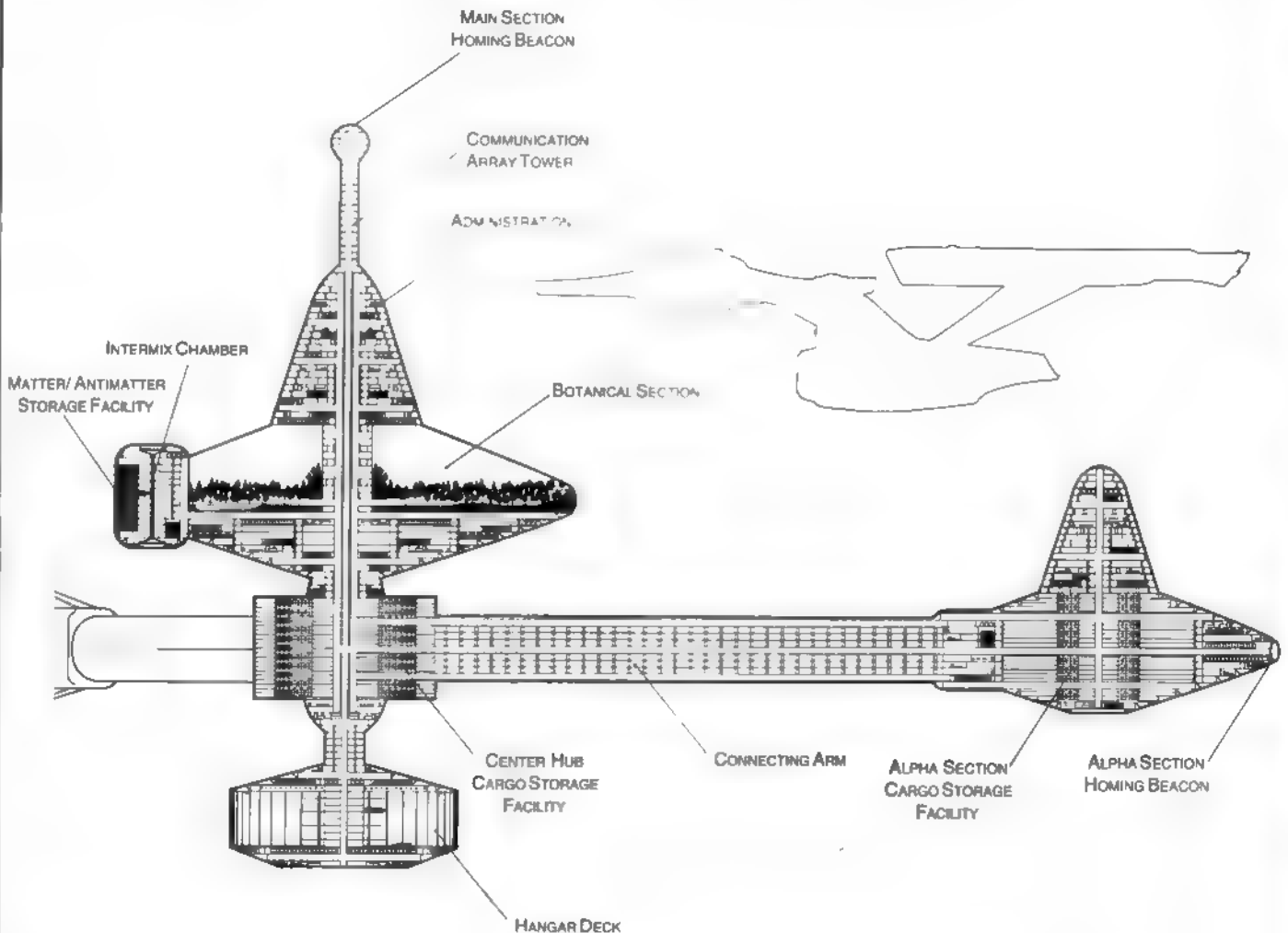
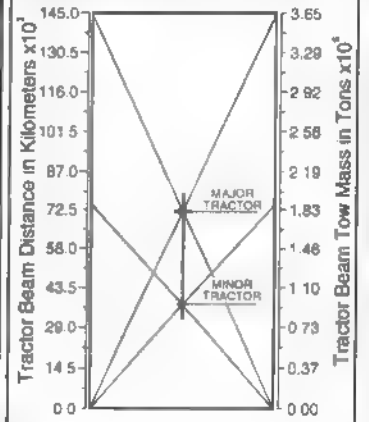
THE FOLLOWING FACILITIES OF THE TYPE K CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2262.10

KEPLER - 1 *K-1*	KEPLER 26 *K-26	KEPLER 51 *K-51	KEPLER - 76 *K-76
KEPLER 2 *K-2	KEPLER 27 *K-27	KEPLER 52 *K-52	KEPLER - 77 *K-77
KEPLER 3 *K-3	KEPLER 28 *K-28	KEPLER 53 *K-53	KEPLER 78 *K-78
KEPLER 4 *K-4	KEPLER 29 *K-29	KEPLER 54 *K-54	KEPLER 79 *K-79
KEPLER 5 *K-5	KEPLER 30 *K-30	KEPLER 55 *K-55	KEPLER - 80 *K-80
KEPLER 6 *K-6	KEPLER 31 *K-31	KEPLER 56 *K-56	KEPLER - 81 *K-81
KEPLER 7 *K-7	KEPLER 32 *K-32	KEPLER 57 *K-57	KEPLER - 82 *K-82
KEPLER 8 *K-8	KEPLER 33 *K-33	KEPLER 58 *K-58	KEPLER - 83 *K-83
KEPLER 9 *K-9	KEPLER 34 *K-34	KEPLER 59 *K-59	KEPLER - 84 *K-84
KEPLER - 10 *K-10	KEPLER 35 *K-35	KEPLER 60 *K-60	KEPLER - 85 *K-85
KEPLER - 11 *K-11	KEPLER 36 *K-36	KEPLER 61 *K-61	KEPLER - 86 *K-86
KEPLER - 12 *K-12	KEPLER 37 *K-37	KEPLER 62 *K-62	KEPLER - 87 *K-87
KEPLER - 13 *K-13	KEPLER 38 *K-38	KEPLER 63 *K-63	KEPLER - 88 *K-88
KEPLER - 14 *K-14	KEPLER 39 *K-39	KEPLER 64 *K-64	KEPLER - 89 *K-89
KEPLER - 15 *K-15	KEPLER 40 *K-40	KEPLER 65 *K-65	KEPLER - 90 *K-90
KEPLER - 16 *K-16	KEPLER 41 *K-41	KEPLER 66 *K-66	KEPLER - 91 *K-91
KEPLER - 17 *K-17	KEPLER 42 *K-42	KEPLER 67 *K-67	KEPLER - 92 *K-92
KEPLER - 18 *K-18	KEPLER 43 *K-43	KEPLER 68 *K-68	KEPLER - 93 *K-93
KEPLER - 19 *K-19	KEPLER 44 *K-44	KEPLER 69 *K-69	KEPLER - 94 *K-94
KEPLER 20 *K-20	KEPLER 45 *K-45	KEPLER 70 *K-70	KEPLER - 95 *K-95
KEPLER 21 *K-21	KEPLER 46 *K-46	KEPLER 71 *K-71	KEPLER - 96 *K-96
KEPLER 22 *K-22	KEPLER 47 *K-47	KEPLER 72 *K-72	
KEPLER 23 *K-23	KEPLER 48 *K-48	KEPLER 73 *K-73	
KEPLER 24 *K-24	KEPLER 49 *K-49	KEPLER 74 *K-74	
KEPLER - 25 *K-25	KEPLER 50 *K-50	KEPLER 75 *K-75	

CLASS FACILITY. "LOST IN THE LINE OF DUTY." "PROPOSED. ALL NAMES PRECEDED WITH "UPP"

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



CROSS SECTION  
ENLARGED FOR CLARITY

# SPACEDOCK



## General Information

**Specific Role:** Spacedocks play a multifaceted role in Federation culture. They are cities in space, research facilities, shipyards, and Federation administration hubs.

**Physical Description:** The Spacedock is made up of 9 vertically stacked modular sections. In the standard configuration the upper section is the (SS128K/F-A1) A1 Administration Section which provides computers, records and administration facilities. Below this is the (SS1025K/F-D1) D1 DryDock Section which provides extensive starship and shuttlecraft maintenance facilities. The DryDock is able to shelter 38 heavy cruisers. Below the DryDock is the (SS205K/F-H2) H2 Habitat Section which contains living quarters and recreational facilities. The (SS432K/F-H1) H1 Habitat Section, which contains living quarters, botanical section and recreational facilities, is directly below the H2 section. Under the H1 section, the (SS128K/F-H3) H3 Habitat Section contains additional living quarters and recreational facilities. Below this is the (SS293K/F-R2) R2 and (SS205K/F-R1) R1 Research Sections containing extensive laboratories and research facilities. Below the research sections are the communication sections the (SS258K/F-C1) C1 Communication Section, and (SS102K/F-C2) C2 Communication Tower Section or a (SS78K/F-C3) C3 Communication Tower Section. The C1 Communication Section houses communication stations and an extensive communication resonant amplification chamber which is used for long range communications. The C2 and C3 towers are used for standard communications.

## Class Emblem



## Facility Silhouettes

Total Target Area 13,231,785.2 m<sup>2</sup>

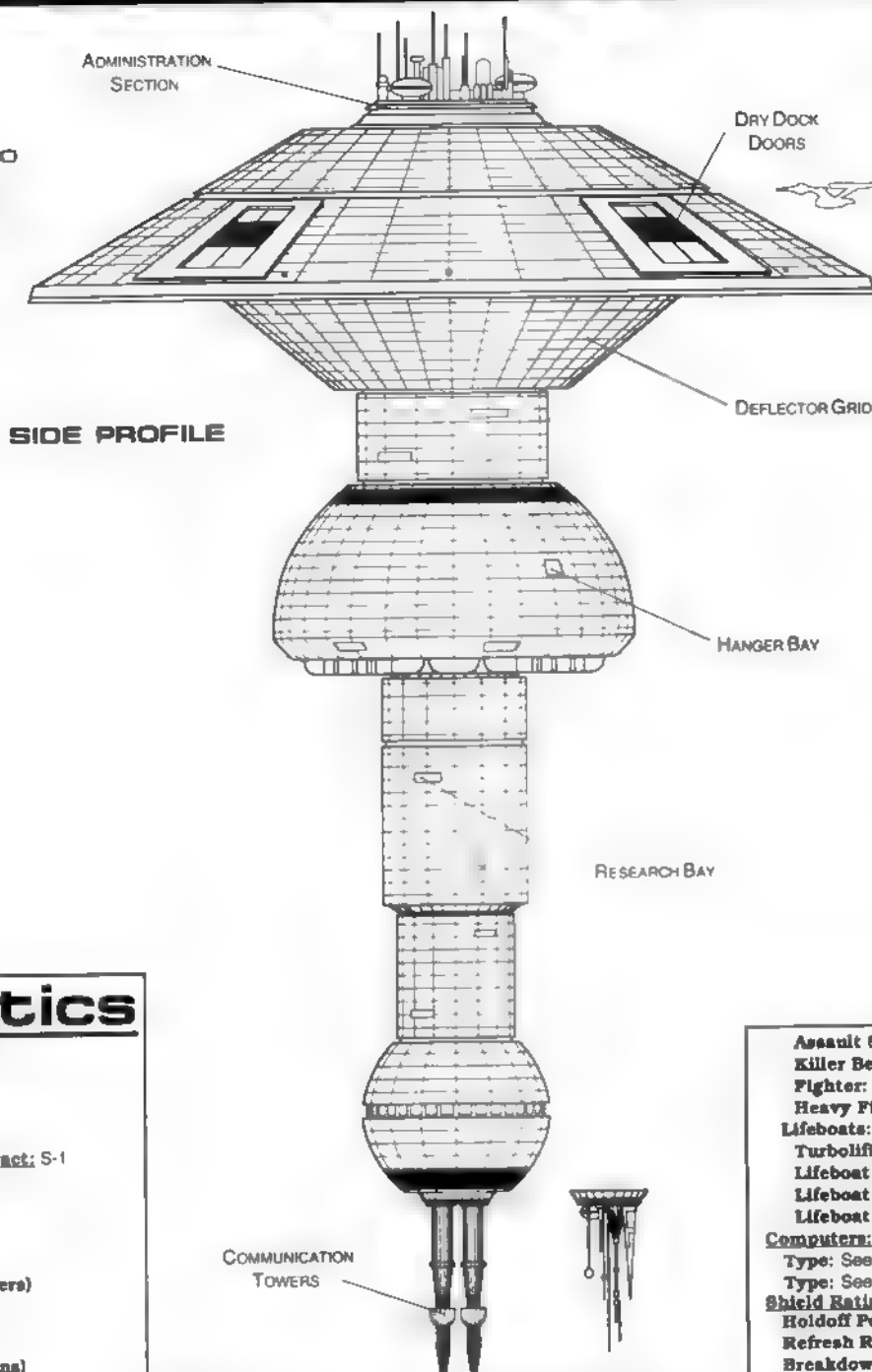
Side Silhouette  
Area 2,735,250.6 m<sup>2</sup>



Top/Bottom Silhouettes  
Area 5,248,267.3 m<sup>2</sup>



METERS  
0 200 400 600  
SCALE 1:22000



## Statistics

**Classification:** Spacedock  
**Category:** Space Station  
**Class:** Journal  
**Type:** Class 3  
**Model:** Type S  
**Naval Construction Contract:** S-1  
**Number Proposed:** 12  
**Number Constructed:** 12  
**Number in Service:** 12  
**Number Lost:** 0

**Dimensions:**  
**Overall Dimensions (Meters)**  
Length: 2523.32m  
Width: 2523.32m  
Height: 4058.29m  
**Displacement (Metric Tons)**  
Light: 867,966,337mt  
Standard: 929,927,400mt  
Full Load: 1,038,096,555mt

**Performance:**  
**Secondary Reactor Output:**  $2.1 \times 10^{15}$  W  
**Primary Reactor Output:**  $4.8 \times 10^{16}$  W  
**Duration (Years)**  
Standard: 30 Years  
Maximum: 70 Years  
**Std. Ships Complement:** 101,145  
Officers: 17,144  
Crew (Ensign Grade): 83,701  
Troops: 300  
Passengers: 8,000  
Emergency condition: +12,000  
**Medical Facilities:**  
Doctors: 600  
Nurses: 3150  
Operating Rooms: 450

**Beds:** 3150  
**Laboratories:** 300  
**Transporters Total:** 462

1 Person: 40  
2 Person: 70  
6 Person: 100  
12 Person: 40  
22 Person: 70  
Small Cargo: 80  
Medium Cargo: 60  
Large Cargo: 2  
Super Cargo: 0  
**Brigs:** 602  
**Replicators:** 1025  
**TraCTOR Beams:** 8  
Tow Capacity:  $1.23 \times 10^7$  mt  
Max Range:  $9.39 \times 10^6$  km

**Cargo Specification:**  
Standard Cargo Units: 21,354  
Cargo Capacity: 1,067,700mt  
**Shuttlecraft Specifications:**  
Docking Ports: 200  
Shuttlecraft Bays Total: 2  
Small Bay: 70  
Medium Bay: 15  
Large Bay: 2  
Super Bay: 1  
Shuttlecraft Standard: 817  
Work Bees: 95  
Travel Pods: 128  
Aquatic Shuttle: 23  
Light Shuttle: 111  
Standard Shuttle: 200  
Heavy Shuttle: 40  
Cargo Shuttle: 200

**Assault Shuttle:** 30  
**Killer Bees:** 32  
**Fighter:** 35  
**Heavy Fighter:** 43  
**Lifeboats:** 4821  
Turbolift (8 person): 821  
Lifeboat (10 person): 1000  
Lifeboat (20 person): 1000  
Lifeboat (30 person): 2000

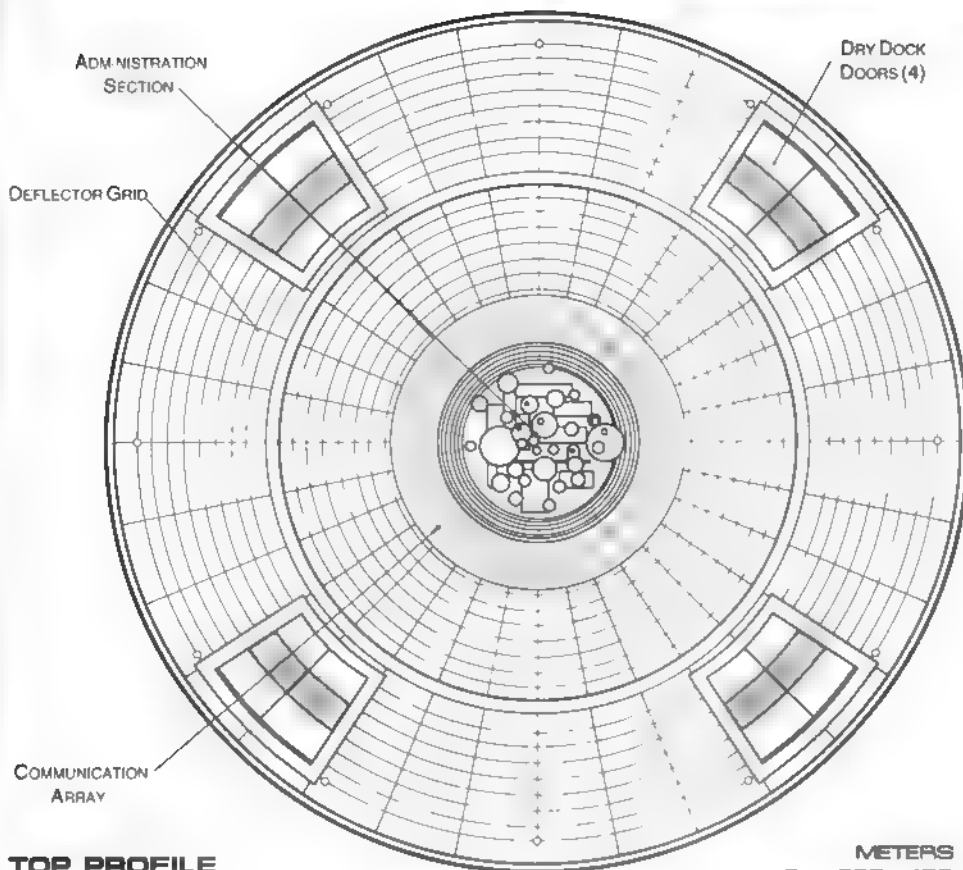
**Computers:** 38  
Type: See Design Specifications  
Type: See Design Specifications  
**Shield Rating:**  
Holdoff Power:  $8.65 \times 10^{12}$  W  
Refresh Rate:  $3.21 \times 10^{12}$  W  
Breakdown Rate:  $5.42 \times 10^{12}$  W  
**Shield Dimensions (Meters)**  
Length: 3027.98m  
Width: 3027.98m  
Height: 4869.95m

**Weapons:**  
**Beam (Phasers) Total:** 40 banks 2 each  
Output:  $5.0 \times 10^{11}$  W /  $2.5 \times 10^{11}$  W  
Range:  $2.5 \times 10^5$  km  
Rate of Fire: 30 ppm / Cont  
**Beam (MegaPhasers) Total:** 20  
Output:  $2.6 \times 10^{12}$  W /  $1.3 \times 10^{12}$  W  
Range:  $1.0 \times 10^6$  km  
Rate of Fire: 15 ppm / Cont  
**Torpedoes (Photon) Total:** 4 Bay 2 each  
Stock: 400  
Range:  $2.0 \times 10^6$  km  
Output: 10-50 Megatons  
Rate of Fire: 10 spm

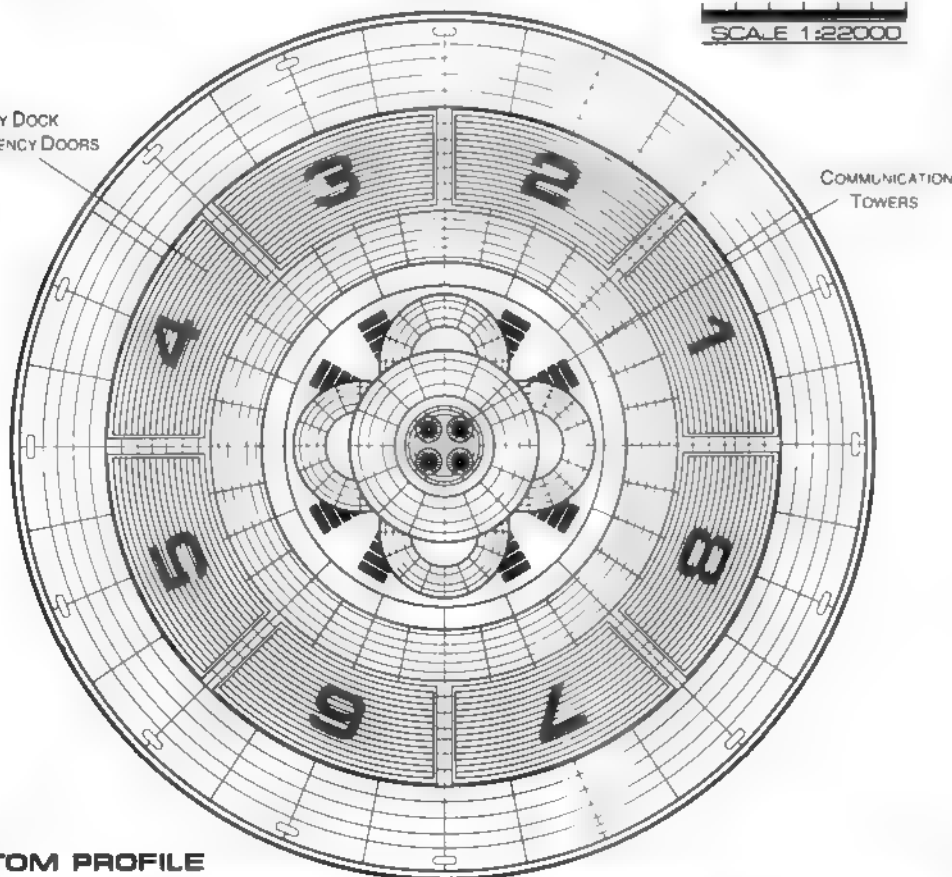
# SPACEDOCK



JOURNAL CLASS



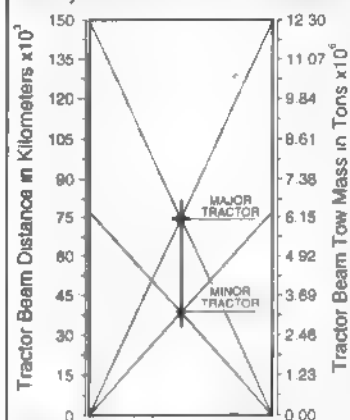
TOP PROFILE



BOTTOM PROFILE

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



## Facility Names

THE FOLLOWING FACILITIES OF THE TYPE D CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2264.9

ALPHA CENTARI PORT \*S-6  
BARNARD FLAERE PORT \*S-3  
MAGE LANIC PORT \*S-11  
JOURNAL PORT \*S-1\*  
P XAR PORT \*S-12  
R GEL PORT \*S-8  
STARBASE 13 \*S-4  
STARBASE 34 \*S-5  
STARBASE 4 \*S-2  
STARBASE 52 \*S-7  
STARBASE 54 \*S-9  
STARBASE 79 \*S-10

\*CLASS FACILITY. \*LOST IN THE LINE OF DUTY. \*PROPOSED. ALL NAMES PRECEDED WITH \*UPP

FEDERATION FACILITY



# SPACEDOCK

JOURNAL CLASS

## CROSS SECTION ENLARGED FOR CLARITY

DRY DOCK

A1 Section  
Administration

D1 Section  
Dry Dock

LIGHT CRAFT  
PLATFORMS

RECREATION  
AREA

H2 Section  
Habitat

BOTANICAL  
SECTION

H1 Section  
Habitat

CHEMICAL  
STORAGE

H3 Section  
Habitat

NULL GRAVITY  
CHAMBER

R2 Section  
Research

LABORATORIES

R1 Section  
Research

PARTICLE  
ACCELERATOR  
CHAMBER

COMMUNICATION  
RESONANT  
AMPLIFICATION  
CHAMBER

C1 Section  
Communication

COMMUNICATION  
TOWERS

C2/C3 Section  
Communication  
Towers

METERS  
0 200 400 600  
SCALE 1:16500

FEDERATION FACILITY

# SPACELAB



## General Information

**Specific Role:** Spacelabs are designed for extensive on location research. The research facilities onboard spacelabs provide the Federation's scientific community with a wealth of new information. The onboard facilities are designed with versatility in mind in order to meet multiple and varied research mission requirements.

**Physical Description:** The Spacelab is made up of a central hub and four exterior, configurable research platforms attached underneath by a connecting ring. The central hub is comprised of three sections, the (SS325/R-S2) main section, the (SS48/R-E9) connecting ring, and the (SS298/R-C5) chemical storage facilities. In the main section the communication array, administration section, hangar deck, living quarters and main laboratory bay are all housed. The connecting ring contains the engineering section and connections to the (SS123/X-XX3) research platforms and chemical storage facilities. Inside the engineering ring is the (MT30/12-2A) toroidal intermix chamber and (AM8/48-4K) matter/antimatter storage tanks. The chemical storage facility houses the chemicals that are used by the facility.

### Class Emblem

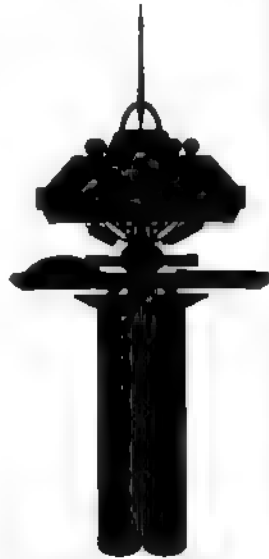


### Facility Silhouettes

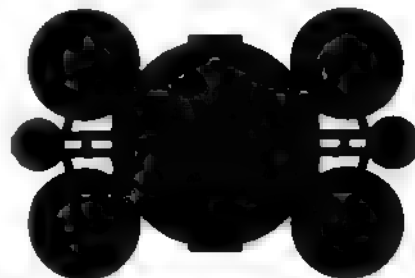
Total Target Area 22852.18 m<sup>2</sup>



Front Silhouette  
Area 5282.64 m<sup>2</sup>

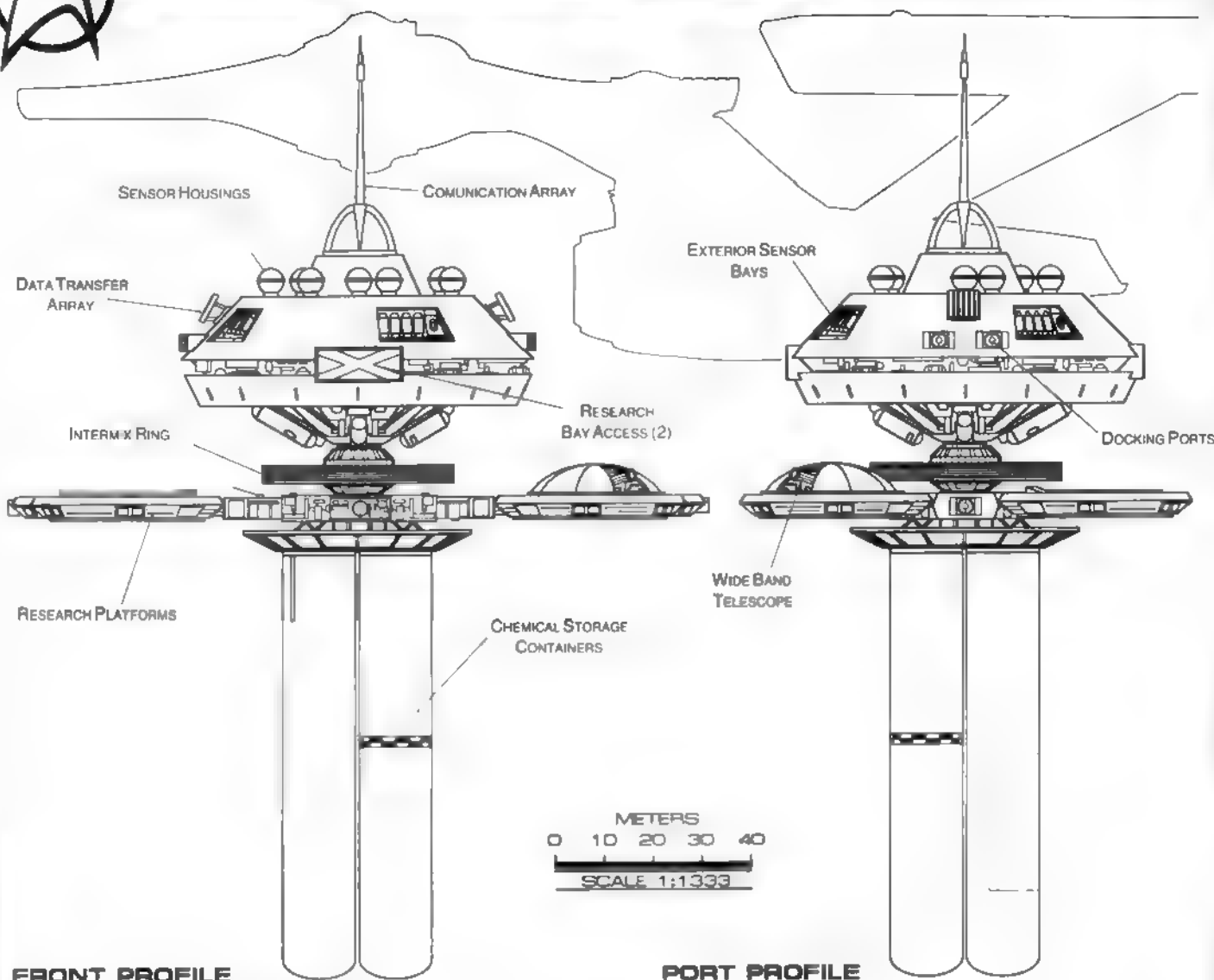


Port Silhouette  
Area 5986.88 m<sup>2</sup>



Top Silhouette  
Area 10372.84 m<sup>2</sup>





FRONT PROFILE

PORT PROFILE

## Statistics

**Classification:** Space Station

**Category:** Space Station

**Class:** Regula

**Type:** Class 3

**Model:** Type R

**Naval Construction Contract:** R-1

**Number Proposed:** 62

**Number Constructed:** 62

**Number in Service:** 61

**Number Lost:** 1

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 92.41m

Width: 143.47m

Height: 193.12m

**Displacement (Metric Tons)**

Light: 94,797mt

Standard: 101,564mt

Full Load: 113,378mt

**Performance:**

**Secondary Reactor Output:**  $2.4 \times 10^{13}$  W

**Primary Reactor Output:**  $1.0 \times 10^{15}$  W

**Duration (Years)**

Standard: 10 Years

Maximum: 40 Years

**Std. Ship Complement:** 539

Officers: 12

**Crew (Ensign Grade):** 61

**Troops:** 0

**Passengers:** 15

**Emergency condition:** +120

**Medical Facilities:**

Doctors: 3

Nurses: 8

Operating Rooms: 2

Beds: 8

**Laboratories:** 8

**Transporters Total:** 4

1 Person: 0

2 Person: 0

6 Person: 2

12 Person: 0

22 Person: 0

Small Cargo: 2

Medium Cargo: 0

Large Cargo: 0

Super Cargo: 0

**Brigs:** 2

**Replicators:** 12

**Tractor Beams:** 1

Tow Capacity:  $1.01 \times 10^6$ mt

Max Range:  $7.64 \times 10^5$ km

**Cargo Specification:**

**Standard Cargo Units:** 70

**Cargo Capacity:** 3,500mt

**Shuttlecraft Specifications:**

**Docking Ports:** 8

**Shuttlecraft Bays Total:** 1

Small Bay: 1

Medium Bay: 0

Large Bay: 0

Super Bay: 0

**Shuttlecraft Standard:** 3

Work Bees: 0

Travel Pods: 0

Aquatic Shuttle: 0

Light Shuttle: 1

Standard Shuttle: 1

Survey Shuttle: 1

Cargo Shuttle: 0

Assault Shuttle: 0

Killer Bees: 0

Fighter: 0

Heavy Fighter: 0

Lifeboats: 7

Turbolift (8 person): 4

Lifeboat (10 person): 2

Lifeboat (20 person): 1

Lifeboat (30 person): 0

**Computers:** 2

**Type:** Daystrom Duotronic III a

**Type:** Daystrom Duotronic II j

**Shield Rating:**

**Holdoff Power:**  $2.15 \times 10^{12}$  W

**Refresh Rate:**  $6.12 \times 10^{11}$  W

**Breakdown Rate:**  $7.35 \times 10^{11}$  W

**Shield Dimensions (Meters)**

Length: 110.89m

Width: 172.16m

Height: 231.74m

**Weapons:**

**Beam (Phasers) Total:** 0

Output: N/A

Range: N/A

Rate of Fire: N/A

**Beam (MegaPhasers) Total:** 0

Output: N/A

Range: N/A

Rate of Fire: N/A

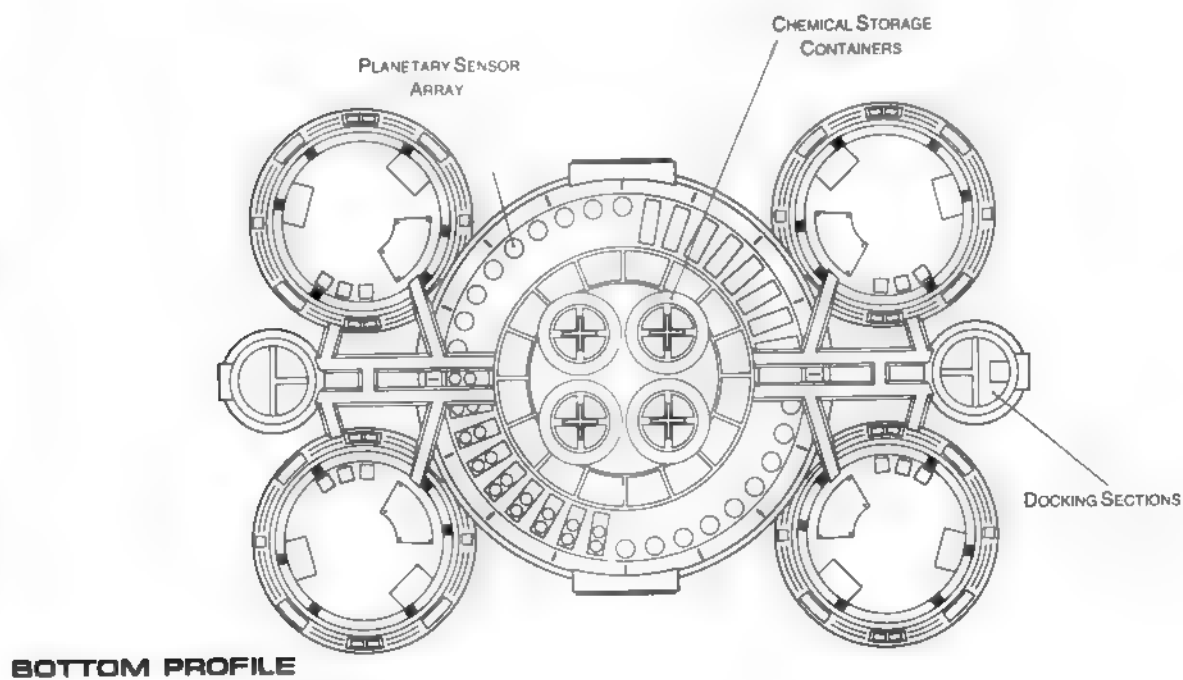
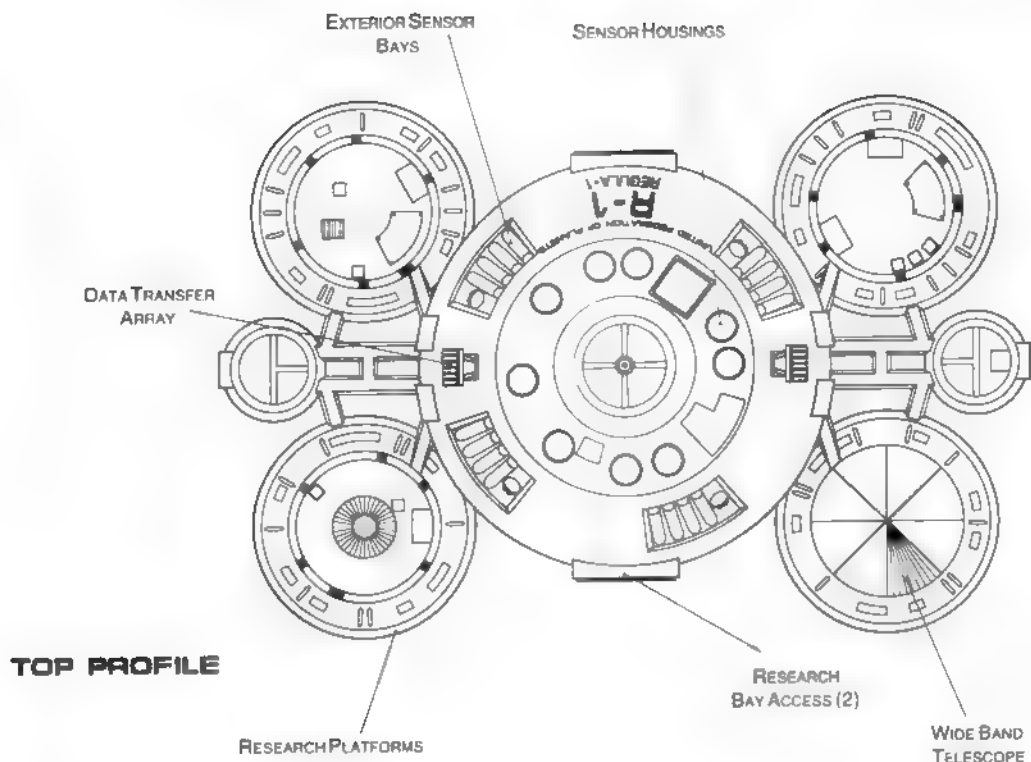
**Torpedoes (Photon) Total:** 0

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A



METERS  
0 10 20 30 40  
SCALE 1:1333



## Facility Names

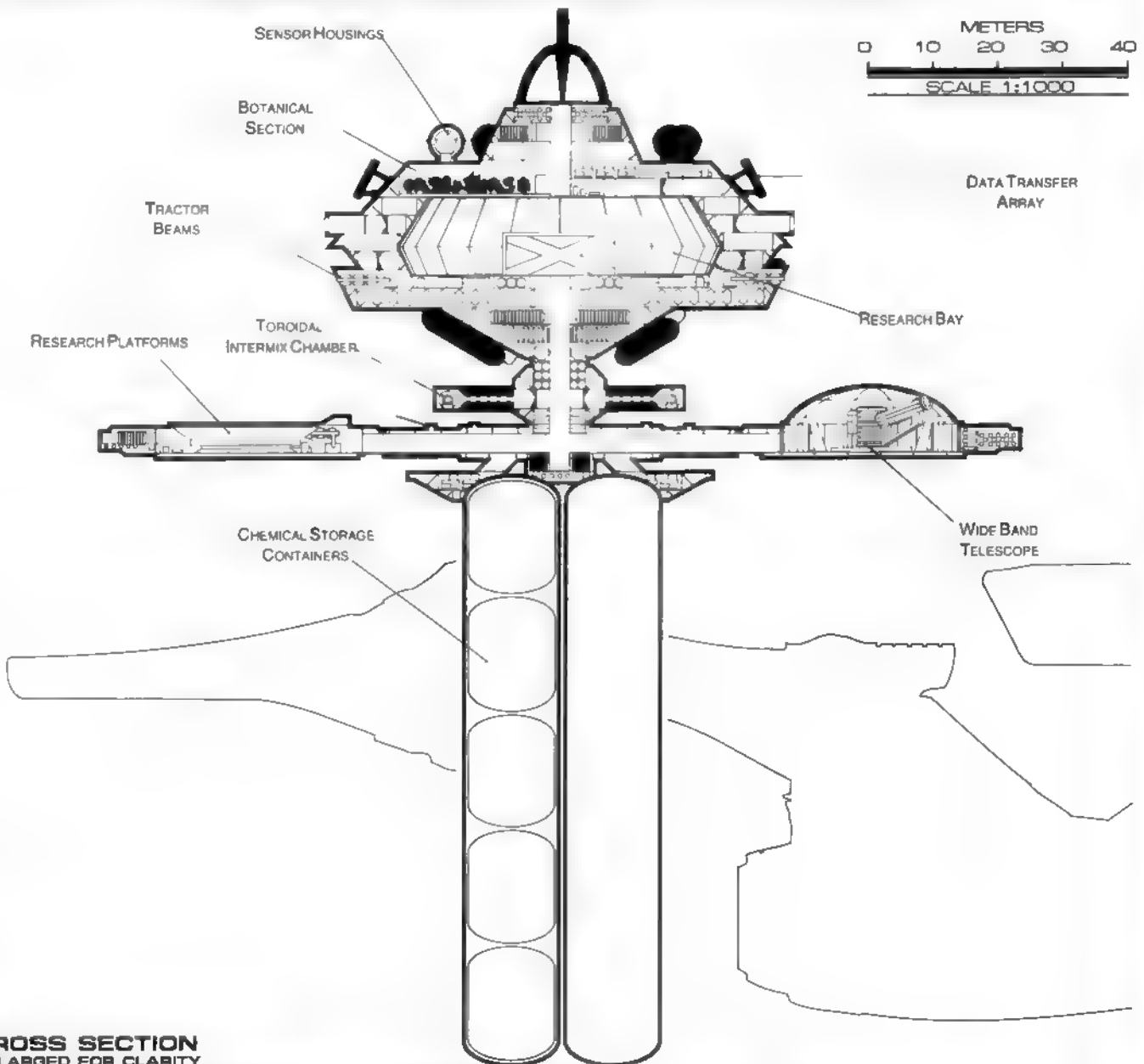
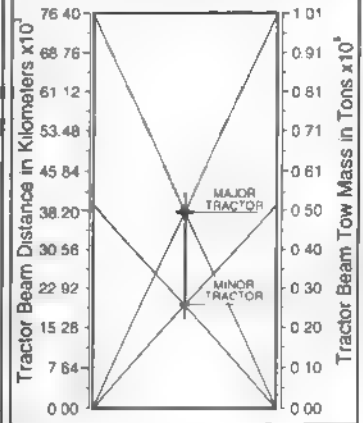
THE FOLLOWING FACILITIES OF THE TYPE R CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2272.12

REGULA - 1 -R-1	REGULA - 26 -R-26	REGULA - 51 -R-51
REGULA - 2 -R-2	REGULA - 27 -R-27	REGULA - 52 -R-52
REGULA - 3 -R-3	REGULA - 28 -R-28	REGULA - 53 -R-53
REGULA - 4 -R-4	REGULA - 29 -R-29	REGULA - 54 -R-54
REGULA - 5 -R-5	REGULA - 30 -R-30	REGULA - 55 -R-55
REGULA - 6 -R-6	REGULA - 31 -R-31	REGULA - 56 -R-56
REGULA - 7 -R-7	REGULA - 32 -R-32	REGULA - 57 -R-57
REGULA - 8 -R-8	REGULA - 33 -R-33	REGULA - 58 -R-58
REGULA - 9 -R-9	REGULA - 34 -R-34	REGULA - 59 -R-59
REGULA - 10 -R-10	REGULA - 35 -R-35	REGULA - 60 -R-60
REGULA - 11 -R-11	REGULA - 36 -R-36	REGULA - 61 -R-61
REGULA - 12 -R-12	REGULA - 37 -R-37	REGULA - 62 -R-62
REGULA - 13 -R-13	REGULA - 38 -R-38	
REGULA - 14 -R-14	REGULA - 39 -R-39	
REGULA - 15 -R-15	REGULA - 40 -R-40	
REGULA - 16 -R-16	REGULA - 41 -R-41	
REGULA - 17 -R-17	REGULA - 42 -R-42	
REGULA - 18 -R-18	REGULA - 43 -R-43	
REGULA - 19 -R-19	REGULA - 44 -R-44	
REGULA - 20 -R-20	REGULA - 45 -R-45	
REGULA - 21 -R-21	REGULA - 46 -R-46	
REGULA - 22 -R-22	REGULA - 47 -R-47	
REGULA - 23 -R-23	REGULA - 48 -R-48	
REGULA - 24 -R-24	REGULA - 49 -R-49	
REGULA - 25 -R-25	REGULA - 50 -R-50	

CLASS FACILITY. "LOST IN THE LINE OF DUTY." "PROPOSED. ALL NAMES PRECEDED WITH "UPP"

## Tractor Beam Specifications

Primary Tractor Beam Load Calculator



# TURBOLIFT (LIFEBOAT)



## General Information

**Specific Role:** Turbolifts are used for the transportation of personnel and supplies inside starships and starbases, however during emergencies the turbolift cars can be used as lifeboats. During normal use, turbolift cars are positioned at each turbolift station, allowing personnel to reach the lifeboats from almost any location. During an evacuation, as soon as a lifeboat is full, it proceeds to an outside exit for jettisoning. The lifeboat, once ejected, extends to one and a half its length increasing the internal volume from 12.67m<sup>3</sup> to 24.88m<sup>3</sup> and can support up to eight people for four weeks. The turbolift cars move through the turboshfts by acceleration rings located in the tube system.

**Physical Description:** The turbolift car is cylindrical with a large door located on the side. Located on the bottom is the emergency propulsion system and lifeboat survival equipment. On the top is the emergency beacon, sensors and landing parachute. The interior is equipped with food rations and other standard survival equipment.

For additional detail refer to Datasheet MVU-1

## Class Emblem



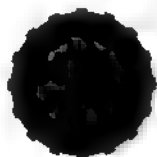
## Statistics

**Classification:** Turbolift (Lifeboat)  
**Category:** Turbolift  
**Class:** Shifter  
**Type:** Class 5  
**Model:** MK-IV  
**Naval Construction Contract:** TL-34  
**Dimensions:**  
**Overall Dimensions (Meters)**  
 Length: 2.70m  
 Width: 2.70m  
 Height: 3.69/5.07m  
**Displacement (Metric Tons)**  
 Light: 5.95mt  
 Full Load: 7.12mt  
**Performance:**  
**Impulse Units:** Single (IP18E/4-TL)  
**Impulse Engine Output:** 6.5x10<sup>5</sup> W  
**Max Cruising:** C  
**Acceleration Rate:**  
 0.00-0.25 Impulse: 0.137 sec  
 0.25-0.50 Impulse: N/A  
 0.50-0.75 Impulse: N/A  
 0.75-Full Impulse: N/A  
**Warp Units:** N/A  
**Warp Engine Output:** N/A  
**Optimum Speed:** N/A  
**Max. Safe Cruising:** N/A  
**Emergency Speed:** N/A  
**Max. Speed:** N/A  
**Destructive Speed:** N/A  
**Acceleration Power:** N/A  
**Acceleration Times:**  
 Warp 1 - Warp 2: N/A  
 Warp 2 - Warp 3: N/A  
 Warp 3 - Warp 4: N/A  
 Warp 4 - Warp 5: N/A  
 Warp 5 - Warp 6: N/A  
 Warp 6 - Warp 7: N/A  
 Warp 7 - Warp 8: N/A  
 Warp 8 - Warp 9: N/A  
 Warp 9 - Warp 9.5: N/A  
 Warp 9.5 - Warp 9.75: N/A  
 Warp 9.75 - Warp 9.9: N/A  
**Duration (Years)**  
 Standard: 5 Years  
 Maximum: 20 Years  
**Std. Ships Complement:** 8  
**Crew:** 0  
**Passengers:** 8  
**Emergency condition:** +2  
**Transporters Total:** 0  
 1 Person: 0  
 2 Person: 0  
 6 Person: 0  
 Small Cargo: 0  
 Medium Cargo: 0

**Traction Beams:** 0  
**Tow Capacity:** N/A  
**Max Range:** N/A  
**Cargo Specification:**  
**Standard Cargo Units:** N/A  
**Cargo Capacity:** N/A  
**Shuttlecraft Specifications:**  
**Docking Ports:** 0  
**Cloaking Devices:** 0  
**Sensor Index Values:**  
**Planetary Survey:** 0.823  
**Stellar Survey:** 0.225  
**Short Range:** 1.011  
**Long Range:** 0.356  
**Navigation:** 0.125  
**Special:** 0.112  
**Computers:** 1  
**Type:** Norray-Magne 5.s  
**Type:** N/A  
**Shield Rating:**  
**Holdoff Power:** 4.72x10<sup>4</sup> W  
**Refresh Rate:** 1.34x10<sup>4</sup> W  
**Breakdown Rate:** 1.61x10<sup>4</sup> W  
**Shield Dimensions (Meters)**  
 Length: 3.24m  
 Width: 3.24m  
 Height: 4.82m  
**Weapons:**  
**Weapon Placement:**  
**Beam (Phasers) Total:** N/A  
**Output:** N/A  
**Range:** N/A  
**Rate of Fire:** N/A  
**Forward Banks:** 0  
**Rear Banks:** 0  
**Port Banks:** 0  
**Starboard Banks:** 0  
**Upper Banks:** 0  
**Lower Banks:** 0  
**Beam (HeavyPhasers) Total:** 0  
**Output:** N/A  
**Range:** N/A  
**Rate of Fire:** N/A  
**Forward/Rear Banks:** 0  
**Port/Starboard Banks:** 0  
**Upper/Lower Banks:** 0  
**Missiles (Photon) Total:** N/A  
**Stock:** N/A  
**Range:** N/A  
**Output:** N/A  
**Rate of Fire:** N/A  
**Forward Bay:** 0  
**Rear Bay:** 0  
**Port Bay:** 0  
**Starboard Bay:** 0  
**Upper Bay:** 0  
**Lower Bay:** 0

## Craft Silhouettes

Total Target Area 21.10, 21.25 m<sup>2</sup>  
 Average Target Area 7.03, 10.43 m<sup>2</sup>



Top Silhouette  
 Area 5.88, 5.91 m<sup>2</sup>

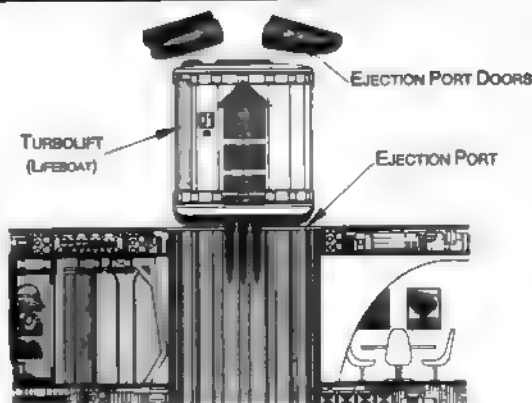


Front Silhouette  
 Area 7.70, 12.78 m<sup>2</sup>



Port Silhouette  
 Area 7.71, 12.80 m<sup>2</sup>

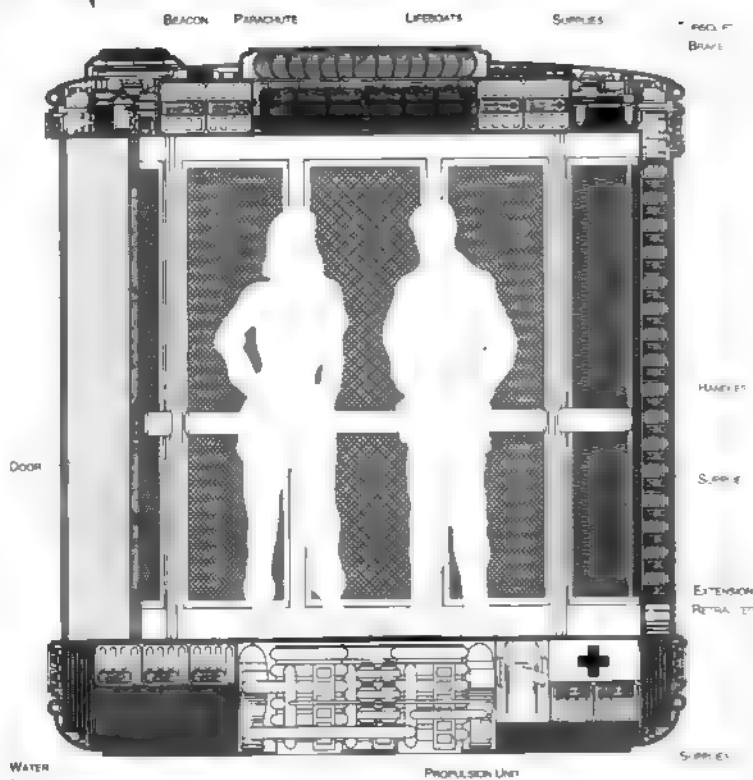
## Turbolift Ejection



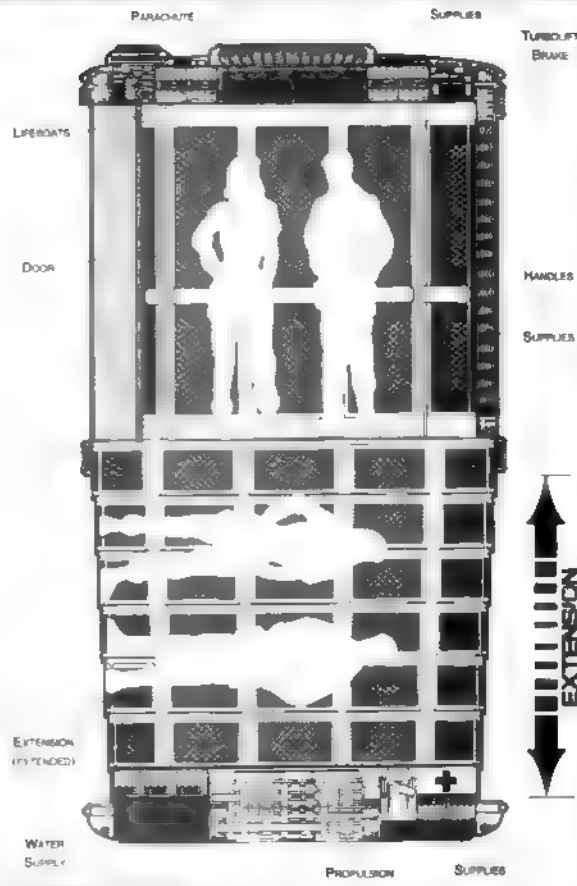


# TURBOLIFT (LIFEBOAT)

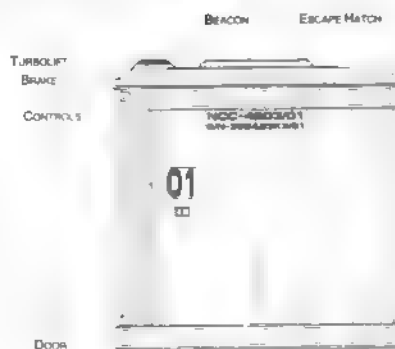
SHIFTER CLASS



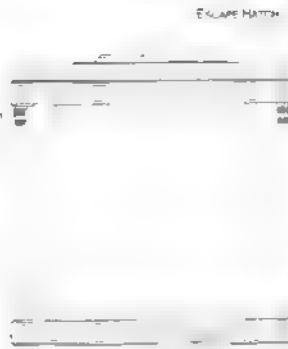
**CROSS SECTION**  
Enlarged for Clarity



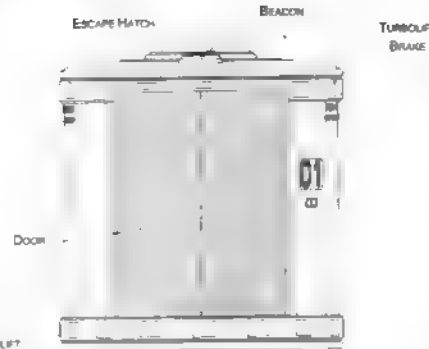
**CROSS SECTION**  
Extended (Lifeboat)



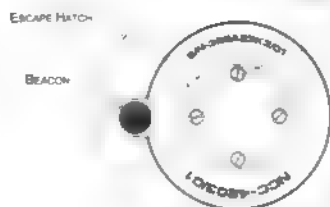
**PORT PROFILE**



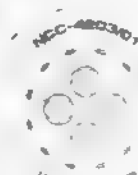
**REAR PROFILE**



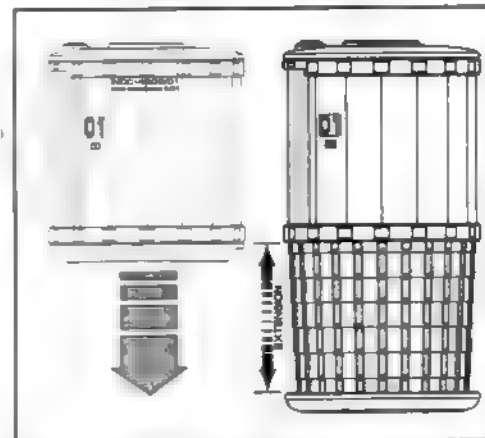
**FRONT PROFILE**



**TOP PROFILE**



**BOTTOM PROFILE**  
Brakes Extended

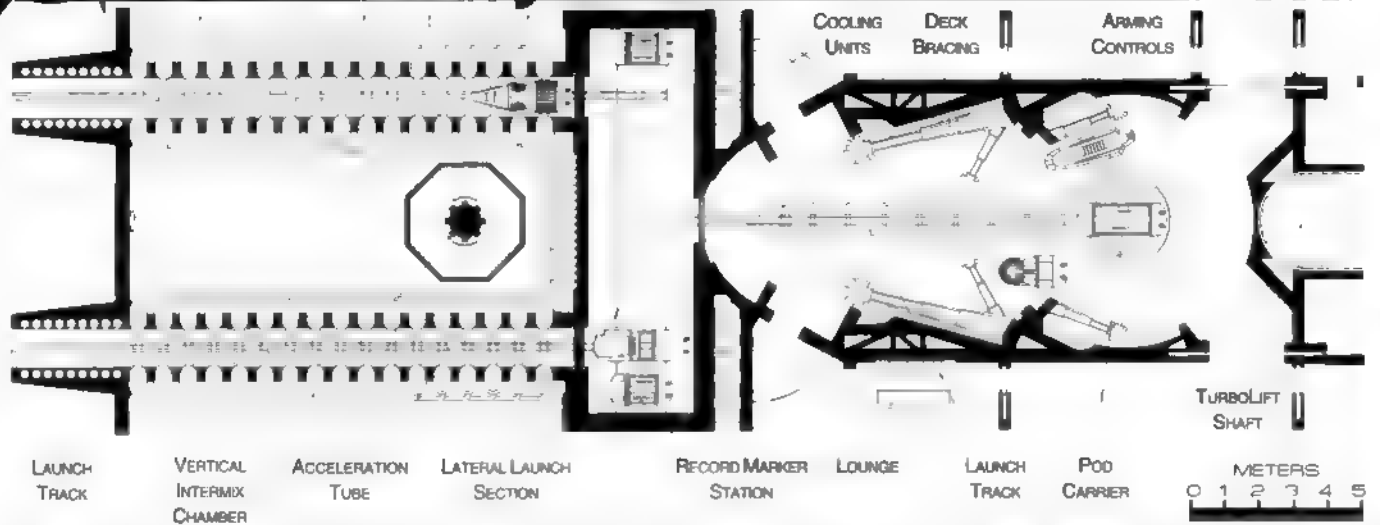


FEDERATION CRAFT



# TORPEDOES/PROBES

## Launch System



## Size Comparison

### Probes

#### Class I

Sensor Probe



#### Class II

Sensor Probe



#### Class III

Planetary Probe



#### Class IV

Stellar Encounter Probe



#### Class V

Reconnaissance Probe



#### Class VI

Communication Relay / Emergency Beacon



#### Class VII

Remote Culture Study Probe



#### Class VIII

Medium Range Multimission Warp Probe



#### Class IX

Long Range Multimission Warp Probe



### Torpedoes

#### Mark I

Record Marker



#### Mark II

Surveillance Torpedo



#### Mark III

Space Mine



#### Mark IV

ECM Torpedo



#### Mark V

Sensor Torpedo



#### Mark VI

Photon Torpedo



#### Mark VII

Vessel Simulator Torpedo



## TORPEDO



## Torpedoes

All torpedoes are based on the same basic components. The front section contains the torpedo's sensors, the center section contains the payload and the rear section contains the micro-warp units used for propulsion. All torpedoes, in addition to carrying out specific missions, can act as low yield anti-matter torpedoes by detonating the remaining anti-matter used to drive the micro warp units. The torpedoes are launched from torpedo launch tubes that are standard on most Federation vessels.

## Torpedo Emblem



For additional detail refer to Datasheet MVE-1

## Mark I

### Record Marker Torpedo

**General Information:** The Record Marker Torpedo is the proverbial jettisonable black box of starships. When a vessel gets into a fatal situation, a record marker is jettisoned with all up to date records for an accurate account of events. A record marker is kept primed at all times to be jettisoned in the event that the vessel is unexpectedly destroyed. The marker can automatically transmit a distress beacon or lay in silence in enemy territory until a Federation craft transmits an activation signal. If an unauthorized attempt is made to access the marker's encrypted data it will self-destruct. Extra thick hull and advanced shielding allow the marker to survive in most instances even when the vessel has been completely destroyed.

**Classification:** Record Marker Torpedo

**Class:** MARK I

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 1.95 m

Width: 0.98 m

Height: 0.47 m

**Displacement (Metric Tons)**

Standard: 98.7 kg

**Performance:**

**Warp Units:** 4 Micro Warp Units (LG-3)

**Cruising Speed:** Warp 3

**Max. Speed:** Warp 9.77 Burst

**Range:**  $1.2 \times 10^6$  km

**Duration:** Years in Reserve Mode

**Telemetry:**

**Channels:** 4,852

**Output:** 80 MW

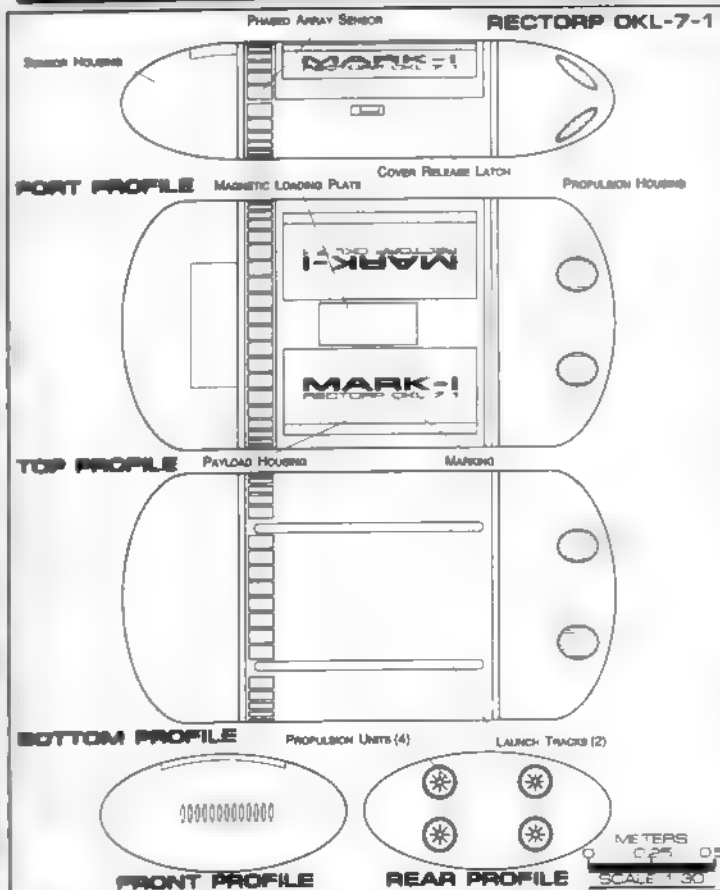
**Sensors:**

**Standard Package**

**Additional Features:**

Femto Second Data Collection

Multi-Frequency Beacon







# TORPEDO

VALAC CLASS

## Mark II Surveillance Torpedo

**General Information:** The Surveillance Torpedo is used when military surveillance is required. The pod is generally seeded in a target area or covertly placed in orbit around a planetary body. Located around the main housing are 44 phased array sensors. If required the pod can be used to attack the surveyed target.

**Classification:** Surveillance Torpedo  
**Class:** MARK II

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 2.75 m

Width: 0.98 m

Height: 0.47 m

**Displacement (Metric Tons)**

Standard: 142.5 kg

**Performance:**

Warp Units: 4 Micro Warp Units (LG-3)

Cruising Speed: Warp 3

Max. Speed: Warp 9.77 Burst

Range:  $1.2 \times 10^6$  km

Duration: Years in Reserve Mode

**Telemetry:**

Channels: 4,852

Output: 60 MW

**Sensors:**

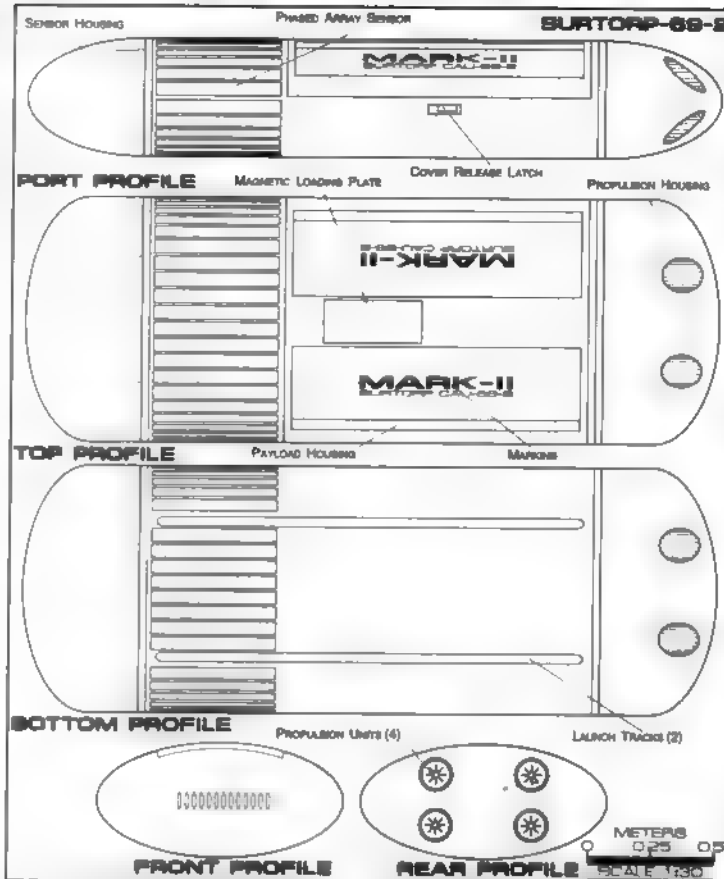
Standard Package

**Additional Features:**

Femto Second Data Collection

Multi-Frequency Beacon

Phased Array Sensor



## Mark III Space Mine

**General Information:** The Space Mine is a small anti-matter charged Photon Torpedo that can lay in waiting until an enemy craft enters its zone of protection. The mine can either be programmed to intercept an enemy craft or to follow enemy craft in an attempt to destroy additional enemy vessels that the craft may approach. The mine is equipped with sophisticated ship recognition software that allows the pod to evaluate each vessel that moves into its target area.

**Classification:** Space Mine

**Class:** MARK III

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 1.95 m

Width: 0.98 m

Height: 0.47 m

**Displacement (Metric Tons)**

Standard: 110.2 kg

**Performance:**

Warp Units: 4 Micro Warp Units (LG-3)

Cruising Speed: Warp 3

Max. Speed: Warp 9.9 Burst

Range:  $1.2 \times 10^6$  km

Duration: Years in Reserve Mode

**Telemetry:**

Channels: 200

Output: 12 MW

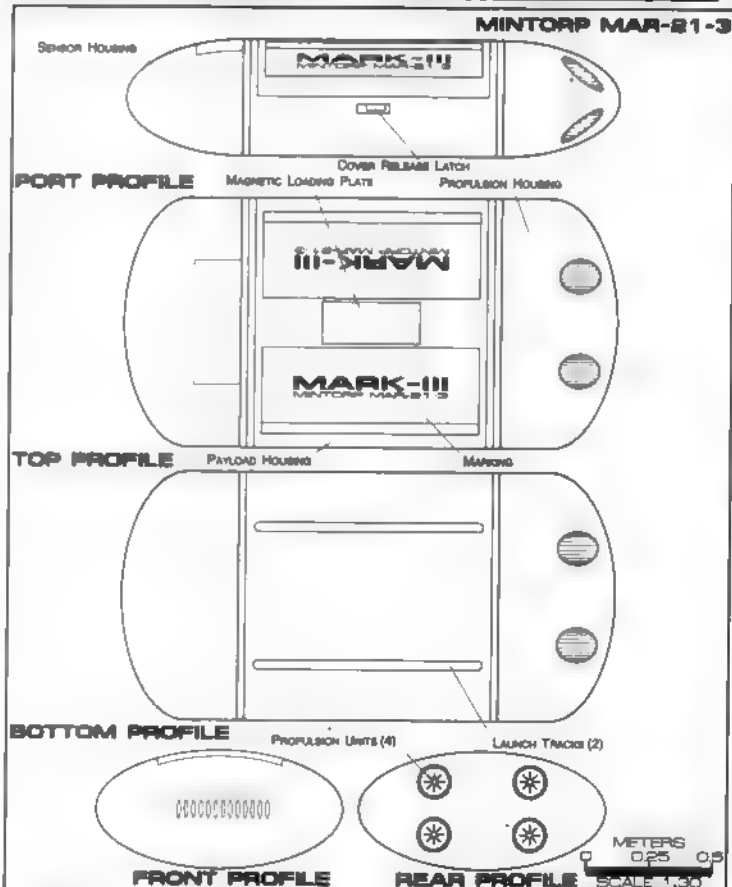
**Sensors:**

Standard Package

**Additional Features:**

Ship Analysis Software

Variable Payload 10-50 Megatons



FEDERATION TORPEDO

# TORPEDO



VALAC CLASS

## Mark IV ECM Torpedo

**General Information:** Electronic Counter-Measures Torpedoes are used to jam and mislead enemy sensors. ECM torpedoes can be used alone or in multiples allowing a vessel to saturate an area reducing the effectiveness of enemy sensors. The torpedo can also simulate a wide variety of naturally occurring background radiation to subtly obscure enemy sensors.

**Classification:** ECM Torpedo  
**Class:** MARK IV

### Overall Dimensions (Meters)

Length: 2.75 m

Width: 0.98 m

Height: 0.47 m

**Displacement (Metric Tons)**

Standard: 139.8 kg

### Performance

**Warp Units:** 4 Micro Warp Units (LG-3)

**Cruising Speed:** Warp 3

**Max. Speed:** Warp 9.77 Burst

**Range:**  $1.2 \times 10^6$  km

**Duration:** Years in Reserve Mode

### Telemetry

**Channels:** 4.852

**Output:** 80 MW

### Sensors:

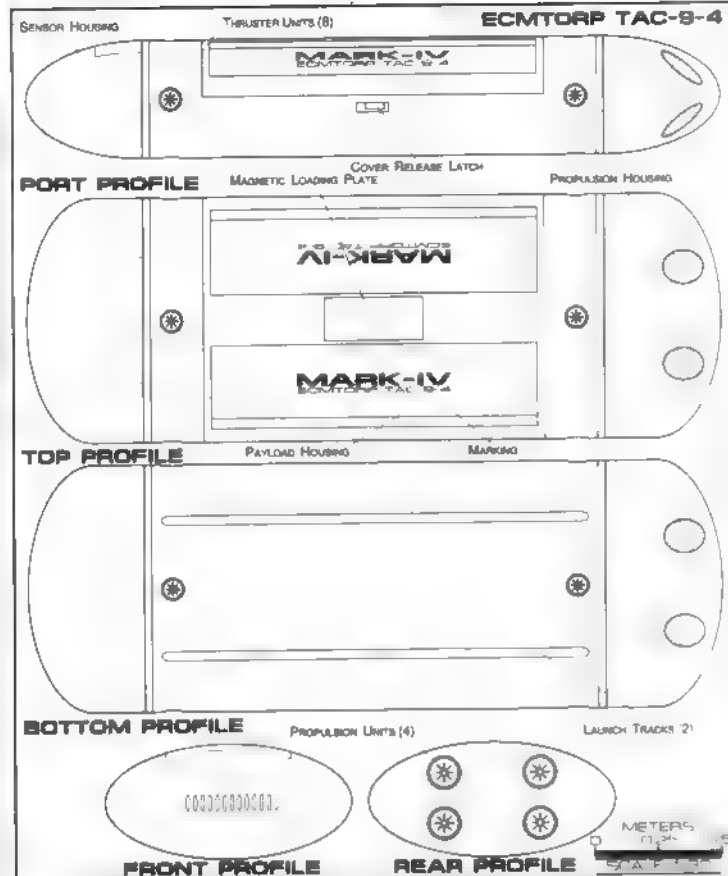
Standard Package

### Additional Features:

Femto Second Data Collection

Multi-Frequency Beacon

Electronic Counter Measures



## Mark V Sensor Torpedo

**General Information:** The Sensor Torpedo is used for long range reconnaissance missions. Located along the lower part of the payload section are 425 phased array sensor discs which give the pod an exceptionally sensitive data acquisition system. In order to avoid detection many of the torpedoes sensors are designed for passive information gathering. If required, the torpedo can also be used to attack enemy targets at remote locations.

**Classification:** Sensor Torpedo  
**Class:** MARK V

### Dimensions

### Overall Dimensions (Meters)

Length: 2.75 m

Width: 0.98 m

Height: 0.47 m

**Displacement (Metric Tons)**

Standard: 142.5 kg

### Performance

**Warp Units:** 4 Micro Warp Units (LG-3)

**Cruising Speed:** Warp 3

**Max. Speed:** Warp 9.77 Burst

**Range:**  $1.2 \times 10^6$  km

**Duration:** Years in Reserve Mode

### Telemetry

**Channels:** 4.852

**Output:** 80 MW

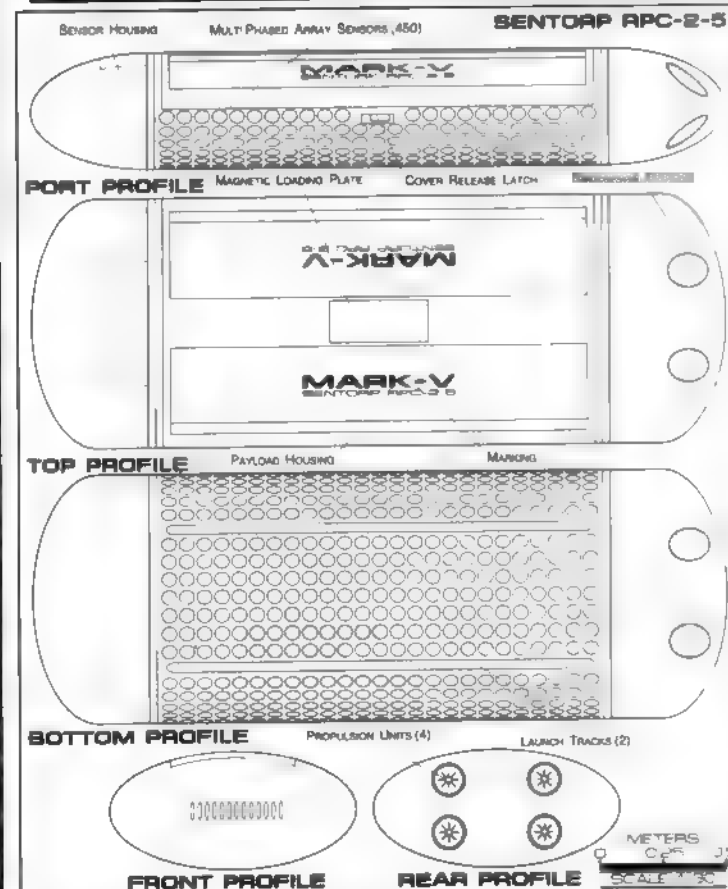
### Standard Package

### Additional Features:

Femto Second Data Collection

Multi-Frequency Beacon

Multi-Phased Array Sensor



FEDERATION TORPEDO

## Mark VI Photon Torpedo

**General Information:** The Photon Torpedo is one of the most common weapons carried aboard Federation vessels. The Photon torpedo contains anti-photons (antimatter) which have light-speed annihilation times which heavier antimatter particles such as anti-protons and anti-neutrons cannot achieve. This reduced reaction time, creates a faster, more intense shock wave for a very destructive effect.

**Classification:** Photon Torpedo

**Class:** MARK VI

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 2.75 m

Width: 0.98 m

Height: 0.47 m

**Displacement (Metric Tons)**

Standard: 140.3 kg

**Performance:**

Warp Units: 4 Micro Warp Units (LG-3)

Cruising Speed: Δ96 C

Max. Speed: Warp 9.8

Range:  $1.2 \times 10^6$  km

Duration: Years in Reserve Mode

**Telemetry:**

Channels: 300

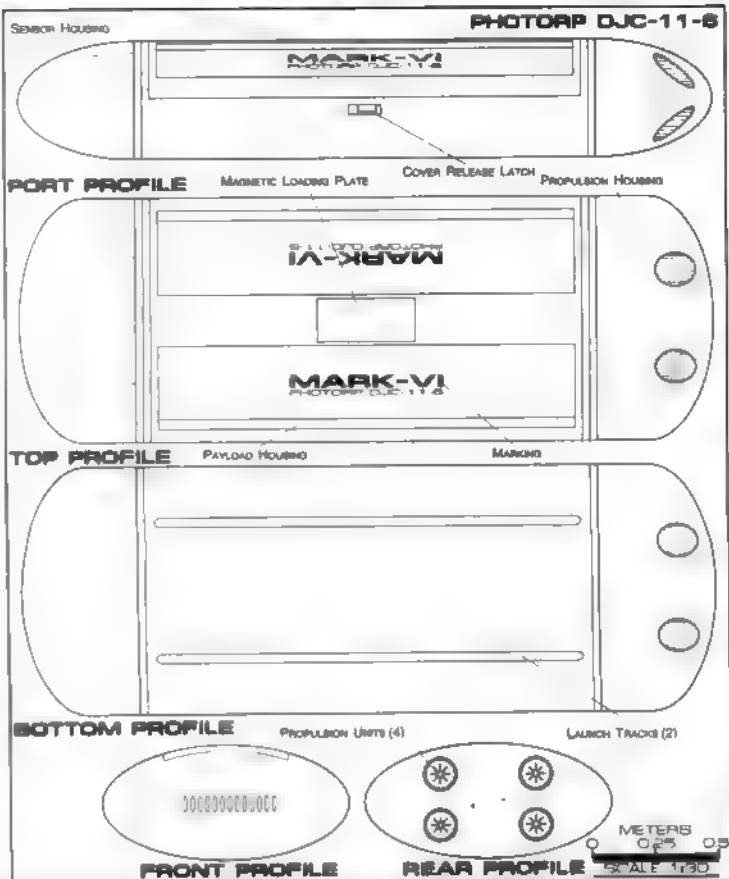
Output: 20 MW

**Sensors:**

Standard Package

**Additional Features:**

Variable Payload 10-60 Megatons



## Mark VII Vessel Simulator Torpedo

**General Information:** This torpedo can simulate various spacecraft with the exception of a visual output. The torpedoes can be used alone or in groups to simulate multiple vessels. They can also be used as decoys drawing attention away from the launch vessel.

**Classification:** Vessel Simulator Torpedo

**Class:** MARK VII

**Dimensions:**

**Overall Dimensions (Meters)**

Length: 2.75 m

Width: 0.98 m

Height: 0.47 m

**Displacement (Metric Tons)**

Standard: 138.2 kg

**Performance:**

Warp Units: 4 Micro Warp Units (LG-3)

Cruising Speed: Warp 3

Max. Speed: Warp 9.77 Burst

Range:  $1.2 \times 10^6$  km

Duration: Years in Reserve Mode

**Telemetry:**

Channels: 4,862

Output: 80 MW

**Sensors:**

Standard Package

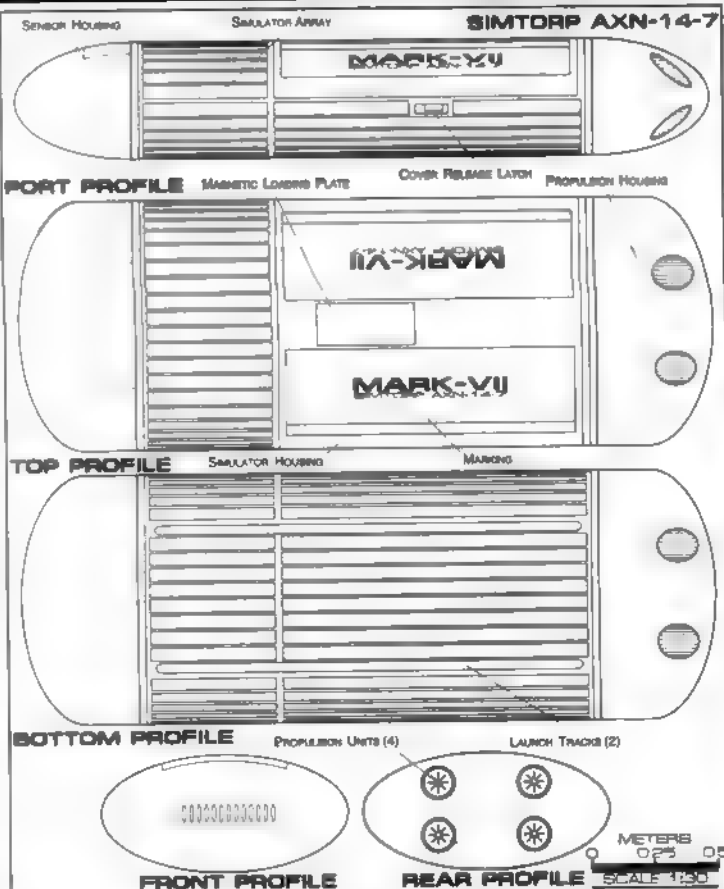
**Additional Features:**

Femto Second Data Collection

Multi-Frequency Beacon

Simulator Array

Vessel Simulation Software



# CLOSING

## Closing Information





## **General Information**

### **Class Emblem**

### **Ship Silhouettes**



PORT PROFILE

CROSS SECTION

## **Statistics**

# SPACE CONTROL SHIP



EXCELSIOR CLASS

TOP PROFILE

FRONT PROFILE

REAR PROFILE

FEDERATION VESSEL

BOTTOM PROFILE

METERS  
0 25 50 75  
SCALE 1:3000





## Ship Names

CLASS SHIP, LOST IN THE LINE OF DUTY, "ENCLOSED. ALL NAMES PRECEDED WITH U.S.S.

**WARP FIELDS**

